

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:47:11 ; Search time 0.001 Seconds  
(without alignments)  
1847.636 Million cell updates/sec

Title: US-10-672-866-3  
Perfect score: 874  
Sequence: 1 ctcgacgctcgtgggttc.....tattaaagaatccaaattc 874

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 55 seqs, 1057 residues

Total number of hits satisfying chosen parameters: 110

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 55 summaries

Database : rni3.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	28	3.2	28	1	US-08-859-998-1011
2	28	3.2	28	1	US-08-859-998-1012
3	28	3.2	28	1	US-09-225-928-1011
4	28	3.2	28	1	US-09-225-928-1012
5	28	3.2	28	1	US-09-225-201B-1011
6	28	3.2	28	1	US-09-225-201B-1012
7	24	2.7	24	1	US-08-023-980B-18
8	24	2.7	24	1	US-08-486-953A-13
9	24	2.7	24	1	US-08-204-052-13
10	21.8	2.5	25	1	5290690-19
11	21.8	2.5	25	1	5290690-19
12	20	2.3	21	1	US-08-023-980B-5
13	20	2.3	21	1	US-08-486-953A-5
14	20	2.3	21	1	US-08-204-052-5
15	17	1.9	21	1	US-08-023-980B-7
16	17	1.9	21	1	US-08-486-953A-7
17	17	1.9	21	1	US-08-204-052-7
18	16.8	1.9	20	1	US-09-068-506-48
19	16.8	1.9	21	1	US-08-023-980B-10
20	16.8	1.9	21	1	US-08-486-953A-10
21	16.8	1.9	21	1	US-08-204-052-10
22	16	1.8	19	1	US-09-545-686-27
23	14.4	1.6	17	1	US-08-412-614-102
24	14.4	1.6	17	1	US-08-412-614-104
25	14.4	1.6	17	1	US-08-635-761-102
26	14.4	1.6	17	1	US-08-635-761-104
27	14.4	1.6	17	1	US-09-312-520-102
28	14.4	1.6	17	1	US-09-312-520-104
29	14.4	1.6	17	1	US-09-863-086-102
30	14.4	1.6	17	1	US-09-863-086-104
31	14	1.6	17	1	US-08-373-124A-962
32	14	1.6	17	1	US-08-373-124A-964
33	14	1.6	17	1	US-08-373-124A-966

34	14	1.6	17	1	US-08-435-628-962	Sequence 962, App
35	14	1.6	17	1	US-08-435-628-964	Sequence 964, App
36	14	1.6	17	1	US-08-435-628-966	Sequence 966, App
37	13.8	1.6	17	1	US-08-584-040-5950	Sequence 5950, App
38	13.8	1.6	17	1	US-09-371-772B-2787	Sequence 2787, App
39	13.8	1.6	17	1	US-09-371-772B-5100	Sequence 5100, App
40	13.8	1.6	17	1	US-09-371-772B-6796	Sequence 6796, App
41	13.8	1.6	17	1	US-09-866-108A-8960	Sequence 8960, App
42	13.8	1.6	17	1	US-09-685-664B-2787	Sequence 2787, App
43	13.4	1.5	16	1	US-09-371-772B-5942	Sequence 5942, App
44	13	1.5	16	1	US-09-371-772B-7004	Sequence 7004, App
45	12.8	1.5	16	1	US-09-371-772B-5969	Sequence 5969, App
46	12.8	1.5	16	1	US-09-371-772B-6103	Sequence 6103, App
47	12.4	1.4	15	1	US-08-311-760A-137	Sequence 137, App
48	12.4	1.4	15	1	US-08-363-240A-144	Sequence 144, App
49	12.4	1.4	15	1	US-08-363-240A-145	Sequence 145, App
50	12.4	1.4	15	1	US-08-774-310-197	Sequence 197, App
51	12	1.4	15	1	US-08-319-492B-148	Sequence 148, App
52	12	1.4	15	1	US-08-363-240A-143	Sequence 143, App
53	12	1.4	15	1	US-08-635-309-24	Sequence 24, App
54	12	1.4	15	1	US-08-585-684B-2103	Sequence 2103, App
55	12	1.4	15	1	US-09-038-073-2103	Sequence 2103, App

## ALIGNMENTS

RESULT 1  
US-08-859-998-1011  
; Sequence 1011, Application US/08859998  
; Patent No. 5994076  
; GENERAL INFORMATION:  
; APPLICANT: Chenchik, Alex  
; APPLICANT: Johhadze, George  
; APPLICANT: Bibilashvili, Robert  
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
; TITLE OF INVENTION: EXPRESSION  
; NUMBER OF SEQUENCES: 1375  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 2200 Sand Hill Road, Suite 100  
; CITY: Menlo Park  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94025  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,998  
; FILING DATE: 21-MAY-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Field, Bret E.  
; REGISTRATION NUMBER: 37,620  
; REFERENCE/DOCKET NUMBER: 09096/002001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-322-5070  
; TELEFAX: 415-854-0875  
; INFORMATION FOR SEQ ID NO: 1011:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; FEATURE:  
; OTHER INFORMATION: oligonucleotide primer

US-08-859-998-1011

Query Match 3.2%; Score 28; DB 1; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTGCAGGCATCATCAATTCGAGCAG 133  
DB 1 AGTGCAGGCATCATCAATTCGAGCAG 28

## RESULT 2

US-08-859-998-1012/c  
; Sequence 1012, Application US/0885998  
; Patent No. 5994076  
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex  
Jokhadze, George  
Bibilashvili, Robert  
APPLICANT: Bibilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
CORRESPONDENCE ADDRESS:  
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,998  
FILING DATE: 21-MAY-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875  
INFORMATION FOR SEQ ID NO: 1012:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
US-08-859-998-1012

Query Match 3.2%; Score 28; DB 1; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCGATC 403  
DB 28 GATCTCACTCTCAGGAGACCATTCGATC 1

## RESULT 3

US-09-225-928-1011  
; Sequence 1011, Application US/09225928  
; Patent No. 6352829  
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex  
Jokhadze, George  
Bibilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
CORRESPONDENCE ADDRESS:  
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225,928  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/859,998  
FILING DATE: 21-MAY-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875

INFORMATION FOR SEQ ID NO: 1011:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:

OTHER INFORMATION: oligonucleotide primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 1011:  
US-09-225-928-1011

Query Match 3.2%; Score 28; DB 1; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTGCAGGCATCATCAATTCGAGCAG 133  
DB 1 AGTGCAGGCATCATCAATTCGAGCAG 28

## RESULT 4

US-09-225-928-1012/c  
; Sequence 1012, Application US/09225928  
; Patent No. 6352829  
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex  
Jokhadze, George  
Bibilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
CORRESPONDENCE ADDRESS:  
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

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; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/225,928
;   FILING DATE: 05-Jan-1999
;   CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/859,998
;   FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
;   NAME: Field, Bret E.
;   REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 415-322-5070
;   TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 28 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
;   OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-928-1012

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      376 GATCTCACTCTCAGGAGACCATTCGCATC 403
Db      28 GATCTCACTCTCAGGAGACCATTCGCATC 1

RESULT 5
US-09-225-201B-1011
; Sequence 1011, Application US/09225201B
; Patent No. 6489455
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
;   Bibilashvilli, Robert
;   Jokhadze, George
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
;   EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/225,201B
;   FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US/08/859,998
;   FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
;   NAME: Field, Bret E.
;   REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 415-322-5070
;   TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 28 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
;   OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-201B-1012

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      376 GATCTCACTCTCAGGAGACCATTCGCATC 403
Db      28 GATCTCACTCTCAGGAGACCATTCGCATC 1

RESULT 6
US-09-225-201B-1012/c
; Sequence 1012, Application US/09225201B
; Patent No. 6489455
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
;   Bibilashvilli, Robert
;   Jokhadze, George
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
;   EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/225,201B
;   FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US/08/859,998
;   FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
;   NAME: Field, Bret E.
;   REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 415-322-5070
;   TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 28 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
;   OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-201B-1011

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      106 AGTGCAGGCGCATCATCAATTCGAGCAG 133
Db      1 AGTGCAGGCGCATCATCAATTCGAGCAG 28

TELEPHONE: 415-322-5070
TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO: 1011:
SEQUENCE CHARACTERISTICS:
  LENGTH: 28 base pairs
  TYPE: nucleic acid
  STRANDEDNESS: single
  TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
  OTHER INFORMATION: oligonucleotide primer
SEQUENCE DESCRIPTION: SEQ ID NO: 1011:
US-09-225-201B-1011
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Query Match 3.2%; Score 28; DB 1; Length 28;

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Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCATC 403
Db 28 GATCTCACTCTCAGGAGACCATTCATC 1

RESULT 7
US-08-023-9803-18/c
; Sequence 18, Application US/080239803
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-9803-18

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCCTGC 579
Db 24 CCCTTAACATCATCTGTTATCCTGC 1

RESULT 8
US-08-486-953A-13/c
; Sequence 13, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-486-953A-13/c

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCCTGC 579
Db 24 CCCTTAACATCATCTGTTATCCTGC 1

RESULT 9
US-08-204-052-13/c
; Sequence 13, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
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; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-204-052-13

Query Match 2.7% Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
Db 24 CCCTTAACCTCATCTGTTATCCTGC 1

RESULT 10
5290690-19/c
; Patent No. 5290690
; APPLICANT: MRABET, NADIR;LASTERS, IGNACE;STANSSENS, PATRICK
; MATTHYSSENS, GASTON;WODAK, SHOSHANA;QUAX, WILHELMUS J.
; TITLE OF INVENTION: METHODS AND MEANS FOR CONTROLLING THE
; STABILITY OF PROTEINS
; NUMBER OF SEQUENCES: 22
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/398,706
; FILING DATE: 25-AUG-1989
; SEQ ID NO:19:
; LENGTH: 25
5290690-19

Query Match 2.5% Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 8.2;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 418 GGTGGTCCATGAAGAGCAGATGAC 442
Db 25 GGTGGTCCATGAAGAGCAGATGAC 1

RESULT 11
5290690-19/c
; Patent No. 5290690
; APPLICANT: MRABET, NADIR;LASTERS, IGNACE;STANSSENS, PATRICK
; MATTHYSSENS, GASTON;WODAK, SHOSHANA;QUAX, WILHELMUS J.
; TITLE OF INVENTION: METHODS AND MEANS FOR CONTROLLING THE
; STABILITY OF PROTEINS
; NUMBER OF SEQUENCES: 22
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/398,706
; FILING DATE: 25-AUG-1989
; SEQ ID NO:19:
; LENGTH: 25
5290690-19

Query Match 2.5% Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 8.2;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 418 GGTGGTCCATGAAGAGCAGATGAC 442
Db 25 GGTGGTCCATGAAGAGCAGATGAC 1

RESULT 12
US-08-023-980B-5/c
; Sequence 5, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-980B-5

Query Match 2.3% Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAGG 137
Db 21 CATCAATTCGAGCAGAGG 2

RESULT 13
US-08-486-953A-5/c
; Sequence 5, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,953A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/204,052
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-486-953A-5

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAAGG 137
DB 21 CATCAATTCGAGCAGAAGG 2

RESULT 15
US-08-023-980B-7/c
; Sequence 7, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023.980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-023-980B-7

Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACAGCAGG 234
DB 21 GGAGATAATACAGCAGG 5

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,953A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/204,052
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-486-953A-5

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAAGG 137
DB 21 CATCAATTCGAGCAGAAGG 2

RESULT 14
US-08-204-052-5/c
; Sequence 5, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:

```

RESULT 16  
US-08-486-953A-7/c  
; Sequence 7, Application US/08486953A  
; Patent No. 5849290  
; GENERAL INFORMATION:  
; APPLICANT: Brown, Robert  
; APPLICANT: Horvitz, H. Robert  
; APPLICANT: Rosen, Daniel R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,  
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Clark & Elbing LLP  
; STREET: 176 Federal Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: FastSeq  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/486,953A  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/204,052  
; FILING DATE: 28-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Clark, Paul T.  
; REGISTRATION NUMBER: 30,162  
; REFERENCE/DOCKET NUMBER: 00786/223002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/428-0200  
; TELEFAX: 617/428-7045  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
US-08-486-953A-7  
Query Match 1.9%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 218 GGAGATAATACAGCAGG 234  
Db 21 GGAGATAATACAGCAGG 5  
RESULT 17  
US-08-204-052-7/c  
; Sequence 7, Application US/08204052  
; Patent No. 6723893  
; GENERAL INFORMATION:  
; APPLICANT: Brown, Robert  
; APPLICANT: Horvitz, H. Robert  
; APPLICANT: Rosen, Daniel R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,  
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: FastSeq  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/486,953A  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/204,052  
; FILING DATE: 28-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Clark, Paul T.  
; REGISTRATION NUMBER: 30,162  
; REFERENCE/DOCKET NUMBER: 00786/223002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/428-0200  
; TELEFAX: 617/428-7045  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
US-08-486-953A-7  
Query Match 1.9%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 218 GGAGATAATACAGCAGG 234  
Db 21 GGAGATAATACAGCAGG 5  
RESULT 18  
US-09-068-506-48/c  
; Sequence 48, Application US/09068506A  
; Patent No. 6589618  
; GENERAL INFORMATION:  
; APPLICANT: YASUE, Hirofumi  
; APPLICANT: YOSHIMURA, Kumamoto  
; TITLE OF INVENTION: DIAGNOSIS OF DISEASES ASSOCIATED WITH CORONARY  
; TWITCHING  
; FILE REFERENCE: 0032-245P  
; CURRENT APPLICATION NUMBER: US/09/068,506A  
; CURRENT FILING DATE: 1998-07-10  
; NUMBER OF SEQ ID NOS: 72  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 48  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: Primers  
US-09-068-506-48  
Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 19;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 168 GCATTAAAGGACTGACTGAA 187  
Db 20 GCACTAAAGGACTGCTGAA 1  
RESULT 19

COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/204,052  
FILING DATE: 28-FEB-1994  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/023,980  
FILING DATE: 26-FEB-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 00786/223001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-204-052-7

Query Match 1.9%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 218 GGAGATAATACAGCAGG 234  
Db 21 GGAGATAATACAGCAGG 5

RESULT 18  
US-09-068-506-48/c  
; Sequence 48, Application US/09068506A  
; Patent No. 6589618  
; GENERAL INFORMATION:  
; APPLICANT: YASUE, Hirofumi  
; APPLICANT: YOSHIMURA, Kumamoto  
; TITLE OF INVENTION: DIAGNOSIS OF DISEASES ASSOCIATED WITH CORONARY  
; TWITCHING  
; FILE REFERENCE: 0032-245P  
; CURRENT APPLICATION NUMBER: US/09/068,506A  
; CURRENT FILING DATE: 1998-07-10  
; NUMBER OF SEQ ID NOS: 72  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 48  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: Primers  
US-09-068-506-48

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 19;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 168 GCATTAAAGGACTGACTGAA 187  
Db 20 GCACTAAAGGACTGCTGAA 1

RESULT 19

```
US-08-023-980B-10
; Sequence 10, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-980B-10
Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 ACAGAGGCATGTTGGAGACT 317
Db | | | | | | | | | | | | | | | | | | | |
2 ATATAGGCATGTTGGAGACT 21

RESULT 20
US-08-486-953A-10
; Sequence 10, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-8906
; TELEFAX: 200154
; TELEX: 200154
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,953A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/204,052
FILING DATE: 28-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/223002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/428-0200
TELEFAX: 617/428-7045
TELEX:
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-486-953A-10
Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 ACAGAGGCATGTTGGAGACT 317
Db | | | | | | | | | | | | | | | | | | | |
2 ATATAGGCATGTTGGAGACT 21

RESULT 21
US-08-204-052-10
; Sequence 10, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-8906
; TELEFAX: 200154
; TELEX: 200154
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; ZIP: 55402-4131

APPLICATION NUMBER: FCI/EF91/00743

APPLICATION NUMBER: FCI/EF91/00743

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/ FILING DATE: 18-APR-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: GB/90901054.3
/ FILING DATE: 18-APR-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A.
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75-USWO
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612-332-5300
/ TELEFAX: 612-332-9081
/ INFORMATION FOR SEQ ID NO: 104:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
US-08-412-614-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCCGTG 82
Db 16 GCGGACGAAGGACGTG 1

RESULT 25
US-08-635-761-102/c
/ Sequence 102, Application US/08635761
/ Patent No. 5945282
/ GENERAL INFORMATION:
/ APPLICANT: Rossau, Rudi
/ TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
/ NUMBER OF SEQUENCES: 104
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
/ STREET: 3100 No. 5945282west Center, 90 S. 7th Street
/ CITY: Minneapolis
/ STATE: MN
/ COUNTRY: U.S.A.
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSEQ Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/635,761
/ FILING DATE: 19-APR-1996
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/965,394
/ FILING DATE: 17-DEC-1992
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A.
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 102:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE:
/ ORIGINAL SOURCE:
US-08-635-761-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCCGTG 82
Db 16 GCGGACGAAGGACGTG 1

RESULT 26
US-08-635-761-104/c
/ Sequence 104, Application US/08635761
/ Patent No. 5945282
/ GENERAL INFORMATION:
/ APPLICANT: Rossau, Rudi
/ TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
/ NUMBER OF SEQUENCES: 104
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
/ STREET: 3100 No. 5945282west Center, 90 S. 7th Street
/ CITY: Minneapolis
/ STATE: MN
/ COUNTRY: U.S.A.
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSEQ Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/635,761
/ FILING DATE: 19-APR-1996
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/965,394
/ FILING DATE: 17-DEC-1992
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A.
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 104:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: both
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE:
/ ORIGINAL SOURCE:
US-08-635-761-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCCGTG 82
Db 16 GCGGACGAAGGACGTG 1
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RESULT 27
US-09-312-520-102/c
; Sequence 102, Application US/09312520
; Patent No. 6277577
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6277577west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,520
; FILING DATE: 19-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/965,394
; FILING DATE: 17-DEC-1992
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; US-09-312-520-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAAGCGCGTG 82
Db 16 GCGCAGCAAGCGCGTG 1

RESULT 28
US-09-312-520-104/c
; Sequence 104, Application US/09312520
; Patent No. 6277577
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6277577west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
```

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; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,520
; FILING DATE: 19-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/965,394
; FILING DATE: 17-DEC-1992
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; US-09-312-520-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAAGCGCGTG 82
Db 16 GCGCAGCAAGCGCGTG 1

RESULT 29
US-09-863-086-102/c
; Sequence 102, Application US/09863086
; Patent No. 6656689
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6656689west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
```

```
/
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX: <Unknown>
/ INFORMATION FOR SEQ ID NO: 102:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: <Unknown>
/ ORIGINAL SOURCE:
/ SEQUENCE DESCRIPTION: SEQ ID NO: 102:
/
US-09-863-086-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAGCGCGTG 82
DB 16 GCGGACGAGGACGTG 1
|||||

RESULT 30
US-09-863-086-104/c
/ Sequence 104, Application US/09863086
/ Patent No. 6656689
/ GENERAL INFORMATION:
/ APPLICANT: Rossau, Rudi
/ TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
/ NUMBER OF SEQUENCES: 104
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
/ STREET: 3100 No. 6656689west Center, 90 S. 7th Street
/ CITY: Minneapolis
/ STATE: MN
/ COUNTRY: U.S.A.
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/863,086
/ FILING DATE: 22-May-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/312,520
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX: <Unknown>
/ INFORMATION FOR SEQ ID NO: 104:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
```

```
/
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: both
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: <Unknown>
/ ORIGINAL SOURCE:
/ SEQUENCE DESCRIPTION: SEQ ID NO: 104:
/
US-09-863-086-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAGCGCGTG 82
DB 16 GCGGACGAGGACGTG 1
|||||

RESULT 31
US-08-373-124A-962
/ Sequence 962, Application US/08373124A
/ Patent No. 5646042
/ GENERAL INFORMATION:
/ APPLICANT: Stinchcomb, Dan T.
/ APPLICANT: Draper, Kenneth
/ APPLICANT: McSwiggen, James
/ APPLICANT: Jarvis, Thale
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
/ TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
/ TITLE OF INVENTION: CANCER USING RIBOZYMES
/ NUMBER OF SEQUENCES: 2627
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Lyon & Lyon
/ STREET: 633 West Fifth Street
/ STREET: Suite 4700
/ CITY: Los Angeles
/ STATE: California
/ COUNTRY: U.S.A.
/ ZIP: 90071
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
/ MEDIUM TYPE: storage
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: IBM P.C. DOS 5.0
/ SOFTWARE: Word Perfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/373,124A
/ FILING DATE: January 13, 1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/245,466
/ FILING DATE: May 18, 1994
/ APPLICATION NUMBER: 08/192,943
/ FILING DATE: February 7, 1994
/ APPLICATION NUMBER: 07/987,132
/ FILING DATE: December 7, 1992
/ APPLICATION NUMBER: 07/936,422
/ FILING DATE: August 26, 1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Warburg, Richard
/ REGISTRATION NUMBER: 32,327
/ REFERENCE/DOCKET NUMBER: 209/035
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 489-1600
/ TELEFAX: (213) 955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 962:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-962

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
DB 3 AUAGUUUUUAAAA 16

RESULT 32
US-08-373-124A-964
; Sequence 964, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 964:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-964

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
DB 3 AUAGUUUUUAAAA 16

RESULT 33
US-08-373-124A-966
; Sequence 966, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 966:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-966

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
DB 1 AUAGUUUUUAAAA 14

RESULT 34
US-08-435-628-962
; Sequence 962, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:

```

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; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-962

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
DB 2 AUAGUUUUUAAAA 15

RESULT 33
US-08-373-124A-966
; Sequence 966, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 966:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-966

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
DB 1 AUAGUUUUUAAAA 14

RESULT 34
US-08-435-628-962
; Sequence 962, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:

```

```

; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 962:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-962

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATAAAA 722
DB 3 AUAGUUUUAUAAA 16

RESULT 35
US-08-435-628-964
; Sequence 964, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700

```

```

; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 964:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-964

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATAAAA 722
DB 2 AUAGUUUUAUAAA 15

RESULT 36
US-08-435-628-966
; Sequence 966, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700

```



## RESULT 39

US-09-371-772B-5100/c  
; Sequence 5100, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5100  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-5100

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 30;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 239 ACCAGTCAGGTCCTCA 255  
| | | | | | | | | | | | | | | | | | | | | |  
Db 17 ATCAGTCAGGTCCTCA 1

## RESULT 40

US-09-371-772B-6796  
; Sequence 6796, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6796  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-6796

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 47.1%; Pred. No. 30;  
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 642 ACTTTTCAGGTGCT 658  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 ACUUUUCAGAGUUGU 17

## RESULT 41

US-09-866-108A-8960  
; Sequence 8960, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8960  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8960

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 30;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 183 CTGAAGGCGCTGCATGGA 199  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 CTGAAGGCGGACATGGA 17

## RESULT 42

US-09-685-664B-2787/c  
; Sequence 2787, Application US/09685664B  
; Patent No. 6818447  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor  
; FILE REFERENCE: MEHB00-876-K (400/021)  
; CURRENT APPLICATION NUMBER: US/09/685,664B  
; CURRENT FILING DATE: 2000-10-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040

```
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; NUMBER OF SEQ ID NOS: 8231
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2787
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus musculus
US-09-685-664B-2787

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559
   |||||
Db 17 TGCAGTCTGAGTCCCT 1

RESULT 43
US-09-371-772B-5942/c
; Sequence 5942, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5942
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5942

Query Match      1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 30;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTGCAGGTCCTCA 255
   |||||
Db 16 CAGTGCAGTCTCTCA 2

RESULT 44
US-09-371-772B-7004
; Sequence 7004, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
```

```
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-7004

Query Match      1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 33;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCATGAAAAA 433
   |||||
Db 4  GGUCCAUGAAAAA 16

RESULT 45
US-09-371-772B-5969/c
; Sequence 5969, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5969
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5969

Query Match      1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 34;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTTCAGAG 653
   |||||
Db 16 TGTGACATTTTCAGTG 1

RESULT 46
US-09-371-772B-6103
; Sequence 6103, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
```

; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6103  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-6103

Query Match 1.4%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 75.0%; Pred. No. 34;  
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 424 CCATGAAACACAGAT 439  
Db 1 CCAUGAAAUCAAU 16

## RESULT 47

US-08-311-760A-197/c  
; Sequence 197, Application US/08311760A  
; Patent No. 559706

; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Newton, Roger S.  
; APPLICANT: Ramharack, Randy

; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES  
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF  
; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY  
; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN

; NUMBER OF SEQUENCES: 392

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; CITY: Suite 4700

; STATE: Los Angeles

; COUNTRY: U.S.A.

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: FastSeq Version 1.5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/311,760A

; FILING DATE: September 23, 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 208/155

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 197:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-311-760A-197

Query Match 1.4%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 34;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 703 ATTGTATACATTTT 716  
Db 15 ATTGGATACATTTT 2

## RESULT 48

US-08-363-240A-144/c  
; Sequence 144, Application US/08363240A  
; Patent No. 5705388

; GENERAL INFORMATION:

; APPLICANT: Couture, Larry

; APPLICANT: McSwiggen, James

; APPLICANT: Bisgaier, Charles

; APPLICANT: Pape, Michael

; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION

; TITLE OF INVENTION: OF VASCULAR DISEASES

; NUMBER OF SEQUENCES: 1243

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; CITY: Suite 4700

; STATE: Los Angeles

; COUNTRY: U.S.A.

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: Word Perfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/363,240A

; FILING DATE: December 23, 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 210/096

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 144:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-363-240A-144

Query Match 1.4%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 34;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 693 CACTTGAAGATTT 706  
Db 15 CTCITGAAGATTT 2

## RESULT 49

US-08-363-240A-145/c  
; Sequence 145, Application US/08363240A  
; Patent No. 5705388

; GENERAL INFORMATION:

; APPLICANT: Couture, Larry

; APPLICANT: McSwiggen, James

; APPLICANT: Bisgaier, Charles

; APPLICANT: Pape, Michael

;; TITLE OF INVENTION: METHOD AND REAGENT FOR  
;; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
;; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
;; NUMBER OF SEQUENCES: 1243  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Lyon & Lyon  
;; STREET: 633 West Fifth Street  
;; STREET: Suite 4700  
;; CITY: Los Angeles  
;; STATE: California  
;; COUNTRY: U.S.A.  
;; ZIP: 90071  
;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/363,240A  
;; FILING DATE: December 23, 1994  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 210/096  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 145:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 15 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
US-08-363-240A-145

Query Match 1.4%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 34;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 693 CACTTGGAGATT 706  
Db 14 CTCTTGGAGATT 1

RESULT 50  
US-08-774-310-197/c  
; Sequence 197, Application US/08774310  
; Patent No. 5877022  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Daniel T.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Newton, Roger S.  
; APPLICANT: Ramharack, Randy  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES  
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF  
; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY  
; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN  
; NUMBER OF SEQUENCES: 392  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: PastSeq Version 1.5  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/774,310  
;; FILING DATE: December 23, 1996  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/311,760  
;; FILING DATE: September 23, 1994  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 223/229  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 197:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 15 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
US-08-774-310-197

Query Match 1.4%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 34;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 703 ATTGTATAGTTT 716  
Db 15 ATTGGATAGTTT 2

RESULT 51  
US-08-319-492B-148  
; Sequence 148, Application US/08319492B  
; Patent No. 5616488  
; GENERAL INFORMATION:  
; APPLICANT: Sullivan, Sean M.  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Stinchcomb, Dan T.  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES  
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS  
; TITLE OF INVENTION: OF IL-5  
; NUMBER OF SEQUENCES: 751  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/319,492B  
; FILING DATE: October 7, 1994  
; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION DATA: including application  
; PRIOR APPLICATION DATA: described below:  
; APPLICATION NUMBER: 08/008,895  
; FILING DATE: January 19, 1993  
; APPLICATION NUMBER: 07/989,849

```
;
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/276
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-319-492B-148

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 58.3%; Pred. No. 37;
Matches 7; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 730 AAAATGCTCTGTT 741
Db 1 AAAAGUCUGUU 12

RESULT 52
US-08-363-240A-143/c
; Sequence 143, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 143:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
```

```
; TOPOLOGY: linear
US-08-363-240A-143

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 695 CTTGGAAGATTT 706
Db 15 CTTGGAAGATTT 4

RESULT 53
US-08-635-309-24/c
; Sequence 24, Application US/08635309
; Patent No. 5709997
; GENERAL INFORMATION:
; APPLICANT: Ronald L. Marshall
; APPLICANT: Cynthia Jou
; APPLICANT: John N. Simons
; APPLICANT: Thomas P. Leary
; APPLICANT: A. Scott Muerhoff
; APPLICANT: Suresh M. Desai
; APPLICANT: Isa K. Mushahwar
; TITLE OF INVENTION: NUCLEIC ACID DETECTION OF HEPATITIS GB VIRUS
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release 1.0, Version 1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/635,309
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Priscilla E. Porembski
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 5792.US.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708/937-0378
; TELEFAX: 708/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic DNA
US-08-635-309-24

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 90 TGAAGGCGCAGC 101
Db 13 TGAAGGCGCAGC 2

RESULT 54
US-08-585-684B-2103/c
; Sequence 2103, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
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APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
INDUCTION OF GRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/585,684B  
FILING DATE: January 16, 1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/000,951  
FILING DATE: July 7, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/078  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2103:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-585-684B-2103

Query Match 1.4%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 37;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 431 AAAGCAGATGAC 442  
DB 14 AAAGCAGATGAC 3

RESULT 55  
US-09-038-073-2103/c  
Sequence 2103, Application US/09038073  
Patent No. 6194150  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
INDUCTION OF GRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/038,073  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/585,684  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/078  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2103:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-038-073-2103

Query Match 1.4%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 37;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 431 AAAGCAGATGAC 442  
DB 14 AAAGCAGATGAC 3

Search completed: April 14, 2005, 16:47:12  
Job time : 0.001 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:49:38 ; Search time 2 Seconds  
(without alignments)

5.577 Million cell updates/sec

Title: US-10-672-866-3

Perfect score: 874

Sequence: 1 ctcgacgctcgggtttcc.....tattaaagaatccaattc 874

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 0.5

Searched: 317 seqs, 6381 residues

Total number of hits satisfying chosen parameters: 634

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 321 summaries

Database : rnpb3.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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2	50	5.7	50	1	US-10-131-827-1951
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7	35	4.0	35	1	US-10-301-516-32
8	35	4.0	35	1	US-10-700-816-15
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C 154	20	2.3	20	1	US-10-672-866-69	Sequence 69, Appl	C 227	17.4	2.0	19	1	US-10-301-516-15	Sequence 15, Appl
C 155	20	2.3	20	1	US-10-672-866-70	Sequence 70, Appl	C 228	17.4	2.0	19	1	US-10-301-516-16	Sequence 16, Appl
C 156	20	2.3	20	1	US-10-672-866-71	Sequence 71, Appl	C 229	17.4	2.0	20	1	US-10-672-866-286	Sequence 286, Appl
C 157	20	2.3	20	1	US-10-672-866-72	Sequence 72, Appl	C 230	17.4	2.0	20	1	US-10-301-516-24	Sequence 24, Appl
C 158	20	2.3	20	1	US-10-672-866-73	Sequence 73, Appl	C 231	17.4	2.0	21	1	US-10-301-516-34	Sequence 34, Appl
C 159	20	2.3	20	1	US-10-672-866-74	Sequence 74, Appl	C 232	17.4	2.0	21	1	US-10-301-516-35	Sequence 35, Appl
C 160	20	2.3	20	1	US-10-672-866-75	Sequence 75, Appl	C 233	17.4	2.0	21	1	US-10-301-516-36	Sequence 36, Appl
C 161	20	2.3	20	1	US-10-672-866-76	Sequence 76, Appl	C 234	16.8	1.9	20	1	US-10-672-866-194	Sequence 194, Appl
C 162	20	2.3	20	1	US-10-672-866-77	Sequence 77, Appl	C 235	16.8	1.9	20	1	US-10-672-866-199	Sequence 199, Appl
C 163	20	2.3	20	1	US-10-672-866-78	Sequence 78, Appl	C 236	16.8	1.9	20	1	US-10-672-866-205	Sequence 205, Appl
C 164	20	2.3	20	1	US-10-672-866-79	Sequence 79, Appl	C 237	16.8	1.9	20	1	US-10-672-866-207	Sequence 207, Appl
C 165	20	2.3	20	1	US-10-672-866-80	Sequence 80, Appl	C 238	16.8	1.9	20	1	US-10-672-866-208	Sequence 208, Appl
C 166	20	2.3	20	1	US-10-672-866-81	Sequence 81, Appl	C 239	16.8	1.9	20	1	US-10-672-866-209	Sequence 209, Appl
C 167	20	2.3	20	1	US-10-672-866-82	Sequence 82, Appl	C 240	16.8	1.9	20	1	US-10-672-866-215	Sequence 215, Appl
C 168	20	2.3	20	1	US-10-672-866-83	Sequence 83, Appl	C 241	16.8	1.9	20	1	US-10-672-866-287	Sequence 287, Appl
C 169	20	2.3	20	1	US-10-672-866-84	Sequence 84, Appl	C 242	16.8	1.9	20	1	US-10-672-866-291	Sequence 291, Appl
C 170	20	2.3	20	1	US-10-672-866-85	Sequence 85, Appl	C 243	16.8	1.9	20	1	US-10-672-866-296	Sequence 296, Appl
C 171	20	2.3	20	1	US-10-672-866-86	Sequence 86, Appl	C 244	16.8	1.9	20	1	US-10-672-866-297	Sequence 297, Appl
C 172	20	2.3	20	1	US-10-672-866-87	Sequence 87, Appl	C 245	16.8	1.9	20	1	US-10-672-866-298	Sequence 298, Appl
C 173	20	2.3	20	1	US-10-672-866-88	Sequence 88, Appl	C 246	16.4	1.9	20	1	US-10-190-366-126	Sequence 126, Appl
C 174	20	2.3	20	1	US-10-672-866-89	Sequence 89, Appl	C 247	16.4	1.9	20	1	US-10-190-366-323	Sequence 323, Appl
C 175	20	2.3	20	1	US-10-672-866-90	Sequence 90, Appl	C 248	16	1.8	18	1	US-10-672-866-159	Sequence 159, Appl
C 176	20	2.3	20	1	US-10-672-866-91	Sequence 91, Appl	C 249	16	1.8	18	1	US-10-672-866-159	Sequence 159, Appl
C 177	20	2.3	20	1	US-10-672-866-92	Sequence 92, Appl	C 250	16	1.8	18	1	US-10-333-429-260	Sequence 260, Appl
C 178	20	2.3	20	1	US-10-672-866-93	Sequence 93, Appl	C 251	15.6	1.8	17	1	US-10-197-280A-27	Sequence 27, Appl
C 179	20	2.3	20	1	US-10-672-866-94	Sequence 94, Appl	C 252	15	1.7	15	1	US-10-484-570-356	Sequence 356, Appl
C 180	20	2.3	20	1	US-10-672-866-95	Sequence 95, Appl	C 253	15	1.7	15	1	US-10-672-866-139	Sequence 139, Appl





; TYPE: DNA  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: Unknown  
; OTHER INFORMATION: wild-type sod1  
US-10-301-516-32

Query Match 4.0%; Score 35; DB 1; Length 35;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 329 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 363  
Db 1 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 35

RESULT 8  
US-10-700-816-15  
; Sequence 15, Application US/10700816  
; Publication No. US20040192629A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Zuoshang  
; TITLE OF INVENTION: Allele-Specific RNA Interference  
; FILE REFERENCE: UMY-038  
; CURRENT APPLICATION NUMBER: US/10/700,816  
; CURRENT FILING DATE: 2003-11-04  
; PRIOR APPLICATION NUMBER: 60/423,507  
; PRIOR FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/488,283  
; PRIOR FILING DATE: 2003-07-18  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 35  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-700-816-15

Query Match 4.0%; Score 35; DB 1; Length 35;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 329 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 363  
Db 1 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 35

RESULT 9  
US-09-899-807-1/c  
; Sequence 1, Application US/09899807  
; Patent No. US20020106348A1  
; GENERAL INFORMATION:  
; APPLICANT: HUANG, PENG  
; APPLICANT: PLUNKETT, WILLIAM  
; APPLICANT: FENG, LI  
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF  
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES  
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION  
; FILE REFERENCE: UTSC:618US  
; CURRENT APPLICATION NUMBER: US/09/899,807  
; CURRENT FILING DATE: 2001-07-05  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-899-807-1

Query Match 3.1%; Score 27; DB 1; Length 27;

Best Local Similarity 100.0%; Pred. No. 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 61 AGTTATGGCGACGAGCGCGTGTGCGT 87  
Db 27 AGTTATGGCGACGAGCGCGTGTGCGT 1

RESULT 10  
US-09-899-807-3  
; Sequence 3, Application US/09899807  
; Patent No. US20020106348A1  
; GENERAL INFORMATION:  
; APPLICANT: HUANG, PENG  
; APPLICANT: PLUNKETT, WILLIAM  
; APPLICANT: FENG, LI  
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF  
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES  
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION  
; FILE REFERENCE: UTSC:618US  
; CURRENT APPLICATION NUMBER: US/09/899,807  
; CURRENT FILING DATE: 2001-07-05  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 23  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-899-807-3

Query Match 2.6%; Score 23; DB 1; Length 23;  
Best Local Similarity 100.0%; Pred. No. 50;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 71 ACGAAGCGCGTGTGCGTGTCTGAA 93  
Db 1 ACGAAGCGCGTGTGCGTGTCTGAA 23

RESULT 11  
US-09-899-807-4/c  
; Sequence 4, Application US/09899807  
; Patent No. US20020106348A1  
; GENERAL INFORMATION:  
; APPLICANT: HUANG, PENG  
; APPLICANT: PLUNKETT, WILLIAM  
; APPLICANT: FENG, LI  
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF  
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES  
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION  
; FILE REFERENCE: UTSC:618US  
; CURRENT APPLICATION NUMBER: US/09/899,807  
; CURRENT FILING DATE: 2001-07-05  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 23  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-899-807-4

Query Match 2.6%; Score 23; DB 1; Length 23;  
Best Local Similarity 100.0%; Pred. No. 50;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 486 CTGGAAGTGTGTTGGCTTGTGGT 508  
|||||

Db 23 CTGGAAGTCCTTGGCTTGCGT 1

## RESULT 12

US-10-719-900-61538  
; Sequence 61538, Application US/10719900  
; Publication No. US20050026164A1

## GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

; FILE REFERENCE: 3528.1

; CURRENT APPLICATION NUMBER: US/10/719,900

; CURRENT FILING DATE: 2003-11-20

; PRIOR APPLICATION NUMBER: 60/427,808

; PRIOR FILING DATE: 2002-11-20

; NUMBER OF SEQ ID NOS: 982914

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

; SEQ ID NO 61538

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-719-900-61538

## Query Match

Best Local Similarity 2.6%; Score 22.4; DB 1; Length 25;

Mismatches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 232 AGGCTGTACCAGTGCAGGTCCTCA 255

Db 2 AGGCTGTACCAGTGCAGGACCTCA 25

## RESULT 13

US-10-333-578-13/c

; Sequence 13, Application US/10333578

; Publication No. US20040058856A1

## GENERAL INFORMATION:

; APPLICANT: CHOI, Soo-Young

; APPLICANT: HAN, Kyu-Hyung

; APPLICANT: PARK, Jinseu

; APPLICANT: KWON, Hyeok-Yil

; APPLICANT: KANG, Jung-Hoon

; APPLICANT: KANG, Tae-Chun

; APPLICANT: LEE, Kil-Soo

; APPLICANT: WON, Moo-Ho

; TITLE OF INVENTION: Oligolysine transducing domain, oligolysine-cargo molecule

; FILE REFERENCE: wjtj-shk-olygok-us

; CURRENT APPLICATION NUMBER: US/10/333,578

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: KR10-2000-43022

; PRIOR FILING DATE: 2000-07-26

; PRIOR APPLICATION NUMBER: KR10-2001-6178

; PRIOR FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: KR10-2001-10981

; PRIOR FILING DATE: 2001-03-03

; PRIOR APPLICATION NUMBER: KR10-2001-14147

; PRIOR FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: PCT/KR01/00835

; PRIOR FILING DATE: 2001-11-26

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: Kopatentin 1.71

; SEQ ID NO 13

; LENGTH: 27

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-333-578-13

## Query Match

Best Local Similarity 2.5%; Score 22.2; DB 1; Length 27;

Mismatches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGATCGCCCAATAACATTC 535

Db 27 GTAATTGGATCGCCCAATAAGCATCC 1

## RESULT 14

US-10-333-578-12

; Sequence 12, Application US/10333578

; Publication No. US20040058856A1

## GENERAL INFORMATION:

; APPLICANT: CHOI, Soo-Young

; APPLICANT: HAN, Kyu-Hyung

; APPLICANT: PARK, Jinseu

; APPLICANT: KWON, Hyeok-Yil

; APPLICANT: KANG, Jung-Hoon

; APPLICANT: KANG, Tae-Chun

; APPLICANT: LEE, Kil-Soo

; APPLICANT: WON, Moo-Ho

; TITLE OF INVENTION: Oligolysine transducing domain, oligolysine-cargo molecule

; FILE REFERENCE: wjtj-shk-olygok-us

; CURRENT APPLICATION NUMBER: US/10/333,578

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: KR10-2000-43022

; PRIOR FILING DATE: 2000-07-26

; PRIOR APPLICATION NUMBER: KR10-2001-6178

; PRIOR FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: KR10-2001-10981

; PRIOR FILING DATE: 2001-03-03

; PRIOR APPLICATION NUMBER: KR10-2001-14147

; PRIOR FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: PCT/KR01/00835

; PRIOR FILING DATE: 2001-11-26

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: Kopatentin 1.71

; SEQ ID NO 12

; LENGTH: 27

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-333-578-12

## Query Match

Best Local Similarity 2.5%; Score 22; DB 1; Length 27;

Mismatches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGGACGAGGCGGTGTGCGTG 88

Db 6 GCGGACGAGGCGGTGTGCGTG 27

## RESULT 15

US-10-109-349A-52

; Sequence 52, Application US/10109349A

; Publication No. US20030186246A1

## GENERAL INFORMATION:

; APPLICANT: Medical College of Ohio

; APPLICANT: Willey, James C.

; APPLICANT: Crawford, Erin L.

; TITLE OF INVENTION: MULTIPLEX STANDARDIZED REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REAC

; FILE REFERENCE: 01154/2001-203

; CURRENT APPLICATION NUMBER: US/10/109,349A

; CURRENT FILING DATE: 2002-06-12

; NUMBER OF SEQ ID NOS: 282

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 52

; LENGTH: 21

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-109-349A-52

## Query Match

Best Local Similarity 2.4%; Score 21; DB 1; Length 21;

Mismatches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



```
QY 153 TGAAGTGTGGGAAGCATTA 173
Db 1 TGAAGGTGTGGGAAGCATTA 21

RESULT 16
US-10-109-349A-53/c
; Sequence 53, Application US/10109349A
; Publication No. US20030186246A1
; GENERAL INFORMATION:
; APPLICANT: Medical College of Ohio
; APPLICANT: Willey, James C.
; APPLICANT: Crawford, Erin L.
; TITLE OF INVENTION: MULTIPLEX STANDARDIZED REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REACTION
; TITLE OF INVENTION: METHOD FOR ASSESSMENT OF GENE EXPRESSION IN SMALL BIOLOGICAL SAMPLES
; FILE REFERENCE: 01154/2001-203
; CURRENT APPLICATION NUMBER: US/10/109,349A
; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 282
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-109-349A-53

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 492 GTCGTTTGGCTGTGTGTGTA 512
Db 21 GTCGTTTGGCTGTGTGTGTA 1

RESULT 17
US-10-633-843-6
; Sequence 6, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 6
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Probe
US-10-633-843-6

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGCCGCTGTGCGTGCTG 91
Db 1 ACGAAGCCGCTGTGCGTGCTG 21

RESULT 18
US-10-672-866-6
; Sequence 6, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
```

```
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 6
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Probe
US-10-672-866-6

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGCCGCTGTGCGTGCTG 91
Db 1 ACGAAGCCGCTGTGCGTGCTG 21

RESULT 19
US-10-719-900-826010
; Sequence 826010, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 826010
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-826010

Query Match 2.4%; Score 21; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 77;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 TGTGATCTCACTCTCAGGAGA 393
Db 4 TGTGATCTCACTCTCAGGAGA 24

RESULT 20
US-10-719-900-61537
; Sequence 61537, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 61537
```

```
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-61537

Query Match      2.4%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 80;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 232 AGCGTGACCACTGCAGGTCTCA 255
      |||||
Db 2 AGCGTGACCACTGCAGGACCTCA 25

RESULT 21
US-10-719-900-456063
; Sequence 456063, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 456063
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-456063

Query Match      2.3%; Score 20.4; DB 1; Length 25;
Best Local Similarity 95.5%; Pred. No. 86;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 314 GACTTGGGCATGTGACTGCTG 335
      |||||
Db 1 GACTTGGGCATGTGACTGCTG 22

RESULT 22
US-10-719-900-284833
; Sequence 284833, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 284833
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-284833

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 512 ATTGGATCGCCCAATAAACATCC 536
      |||||
Db 1 ATTGGATTCGCGCAGTAACATCC 25

RESULT 23
US-10-719-900-458198
; Sequence 458198, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 458198
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-458198

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 341 GATGTTGGCCGATGTGTCTATTG 365
      |||||
Db 1 GACGGTGTGGCCAATGTGTCCATTG 25

RESULT 24
US-10-719-900-458199
; Sequence 458199, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 458199
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-458199

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 341 GATGTTGGCCGATGTGTCTATTG 365
      |||||
Db 1 GACGGTGTGGCCAATGTGTCCATTG 25

RESULT 25
US-10-719-900-889725
; Sequence 889725, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 889725
; LENGTH: 25
```

```

; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-889725

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      514 TGGGATCGCCCAATAAACATTCCCT 538
      ||||| || || || || || || || || ||
Db      1 TGGGATTGCGCACTAAACATTCCCT 25

RESULT 26
US-10-719-900-889726
; Sequence 889726, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 889726
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-889726

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      514 TGGGATCGCCCAATAAACATTCCCT 538
      ||||| || || || || || || || || ||
Db      1 TGGGATTGCGCAGTAAACATTCCCT 25

RESULT 27
US-10-719-900-893797
; Sequence 893797, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 893797
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-893797

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      420 TGGTCCCATGAAAAAGCAGATGACTT 444
      ||||| || || || || || || || || ||
Db      1 TGGTCCCATGAGAAACAGATGACTT 25

RESULT 28
US-10-719-900-967669/c

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-633-843-5

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 108 TGCAGGGCATCATCAATTC 127
Db 20 TGCAGGGCATCATCAATTC 1

RESULT 31
US-10-633-843-13/c
; Sequence 13, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-13

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 GAAGGCCGTGCTGCTGCTGA 92
Db 20 GAAGGCCGTGCTGCTGCTGA 1

RESULT 32
US-10-633-843-14/c
; Sequence 14, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-14

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 78 CCGTGTGCTGCTGAAGGC 97
Db 20 CCGTGTGCTGCTGAAGGC 1

RESULT 33
US-10-633-843-15/c
; Sequence 15, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-15

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 81 TGTGCTGCTGAAGCGCAG 100
Db 20 TGTGCTGCTGAAGCGCAG 1

RESULT 34
US-10-633-843-16/c
; Sequence 16, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 16
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-16

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 GGTTCGGTGCAGTCCTCG 33
Db 20 GGTTCGGTGCAGTCCTCG 1

RESULT 35
US-10-633-843-17/c
; Sequence 17, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett

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; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-17

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      19  CCGTTCGAGTCTCGGAACC 38
Db      20  CCGTTCGAGTCTCGGAACC 1
          |||
RESULT 36
US-10-633-843-18/c
; Sequence 18, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-18

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      23  TGCAGTCTCGGAACCAAGGA 42
Db      20  TGCAGTCTCGGAACCAAGGA 1
          |||
RESULT 37
US-10-633-843-19/c
; Sequence 19, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-19

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      27  GTCCTCGGAACCAAGACCTC 46
Db      20  GTCCTCGGAACCAAGACCTC 1
          |||
RESULT 38
US-10-633-843-20/c
; Sequence 20, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-20

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      38  CAGGACCTCGCGTGGCCTA 57
Db      20  CAGGACCTCGCGTGGCCTA 1
          |||
RESULT 39
US-10-633-843-21/c
; Sequence 21, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-21

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      53  GCCTAGCAGTTATGGCGAC 72
          |||
```

Db 20 GCCTAGCGAGCTTATGCGCAC 1

RESULT 40  
US-10-633-843-22/c  
; Sequence 22, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 22  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-22

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 GCGACGGCCCGAGTCGACGGC 115  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 GCGACGGCCCGAGTCGACGGC 1

RESULT 41  
US-10-633-843-23/c  
; Sequence 23, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 23  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-23

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTGCAGGGGCATCATCAANT 125  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 AGTGCAGGGGCATCATCAANT 1

RESULT 42  
US-10-633-843-24/c  
; Sequence 24, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION

; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-26

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 144 ATGACCACTGAGGTGTGG 163  
|||||  
Db 20 ATGACCACTGAGGTGTGG 1

## RESULT 45

US-10-633-843-27/c  
; Sequence 27, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 27  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-27

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 161 TGGGGAAGCATTAAAGGACT 180  
|||||  
Db 20 TGGGGAAGCATTAAAGGACT 1

## RESULT 46

US-10-633-843-28/c  
; Sequence 28, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 28  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-28

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 173 AAAGGACTGACTGAAGCCT 192  
|||||  
Db 20 AAAGGACTGACTGAAGCCT 1

## RESULT 47

US-10-633-843-29/c  
; Sequence 29, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 29  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-29

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 AAGGACTGACTGAAGCCTG 193  
|||||  
Db 20 AAGGACTGACTGAAGCCTG 1

## RESULT 48

US-10-633-843-30/c  
; Sequence 30, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 30  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-30

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 205 TGTTCATGAGTTGGAGATA 224  
|||||  
Db 20 TGTTCATGAGTTGGAGATA 1

## RESULT 49

US-10-633-843-31/c  
; Sequence 31, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843

; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 31  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-31

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 GAGTTGGAGATAATACAGC 231  
DB 20 GAGTTGGAGATAATACAGC 1

RESULT 50  
US-10-633-843-32/c  
; Sequence 32, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 32  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-32

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACAGCGCTGTAC 240  
DB 20 GATAATACAGCGCTGTAC 1

RESULT 51  
US-10-633-843-33/c  
; Sequence 33, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 33  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-33

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 304 GCATGTTGGAGACTTGGGCA 323  
DB 20 GCATGTTGGAGACTTGGGCA 1

RESULT 52  
US-10-633-843-34/c  
; Sequence 34, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 34  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-34

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 TTGGAGACTTGGGCAATGTG 328  
DB 20 TTGGAGACTTGGGCAATGTG 1

RESULT 53  
US-10-633-843-35/c  
; Sequence 35, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 35  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-35

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 335 GACAAAGATGGTGTGCCGA 354  
DB 20 GACAAAGATGGTGTGCCGA 1

RESULT 54



```
US-10-633-843-36/c
; Sequence 36, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 20
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-36

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 337 CAAGATGGTGGCCGATG 356
DB 20 CAAGATGGTGGCCGATG 1

RESULT 55
US-10-633-843-37/c
; Sequence 37, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 20
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-37

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 AGATGGTGGCCGATG 359
DB 20 AGATGGTGGCCGATG 1

RESULT 56
US-10-633-843-38/c
; Sequence 38, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; CURRENT FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 20
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-38

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGGCGGATG 362
DB 20 TGGTGGCGGATG 1

RESULT 57
US-10-633-843-39/c
; Sequence 39, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 20
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-39

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 ATTGGCGCACACTGGT 423
DB 20 ATTGGCGCACACTGGT 1

RESULT 58
US-10-633-843-40/c
; Sequence 40, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 20
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-40

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
US-10-633-843-36/c
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-38

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGGCGGATG 362
DB 20 TGGTGGCGGATG 1

RESULT 57
US-10-633-843-39/c
; Sequence 39, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-39

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 ATTGGCGCACACTGGT 423
DB 20 ATTGGCGCACACTGGT 1

RESULT 58
US-10-633-843-40/c
; Sequence 40, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-40

Query Match      2.3%; Score 20; DB 1; Length 20;
```

```
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 409 CCGCACACTGGTGGTCCATG 428
Db 20 CCGCACACTGGTGGTCCATG 1

RESULT 59
US-10-633-843-41/c
; Sequence 41, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-41

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CGCACACTGGTGGTCCATGA 429
Db 20 CGCACACTGGTGGTCCATGA 1

RESULT 60
US-10-633-843-42/c
; Sequence 42, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-42

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 504 GTGGTGTAAATGGGATCGCC 523
Db 20 GTGGTGTAAATGGGATCGCC 1

RESULT 61
US-10-633-843-43/c
; Sequence 43, Application US/10633843
```

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Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-43

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAAACATTCC 536
Db 20 GATCGCCCAATAAACATTCC 1

RESULT 62
US-10-633-843-44/c
; Sequence 44, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-44

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 535 CCCTTGGATGTAGTCTGAGG 554
Db 20 CCCTTGGATGTAGTCTGAGG 1

RESULT 63
US-10-633-843-45/c
; Sequence 45, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
```

; SEQ ID NO 45  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-45

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATC 575  
DB 20 CCCTTAACATCATCTGTTATC 1

RESULT 64  
US-10-633-843-46/c  
; Sequence 46, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 46  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-46

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAATGTG 639  
DB 20 ATCTTAAAGTGAATGTG 1

RESULT 65  
US-10-633-843-47/c  
; Sequence 47, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 47  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-47

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 625 AAAAGTGAATGTGTGACT 644  
DB 20 AAAAGTGAATGTGTGACT 1

RESULT 66  
US-10-633-843-48/c  
; Sequence 48, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 48  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-48

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTATAAGTACCTGTAGTGAG 677  
DB 20 TTATAAGTACCTGTAGTGAG 1

RESULT 67  
US-10-633-843-49/c  
; Sequence 49, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 49  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-49

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 667 CCTGTAGTGAGAACTGATT 686  
DB 20 CCTGTAGTGAGAACTGATT 1

RESULT 68  
US-10-633-843-50/c  
; Sequence 50, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:

```

; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-50

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      670 GTAGTGAGAACTGATTAT 689
Db      20 GTAGTGAGAACTGATTAT 1

RESULT 69
US-10-633-843-51/c
; Sequence 51, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-51

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      671 TAGTGAGAACTGATTATG 690
Db      20 TAGTGAGAACTGATTATG 1

RESULT 70
US-10-633-843-52/c
; Sequence 52, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-52
```

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-52

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      686 TTATGATCACTTGAAGATT 705
Db      20 TTATGATCACTTGAAGATT 1

RESULT 71
US-10-633-843-53/c
; Sequence 53, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-53

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      691 ATCACTTGAAGATTGTAT 710
Db      20 ATCACTTGAAGATTGTAT 1

RESULT 72
US-10-633-843-54/c
; Sequence 54, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-54

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      707 GTATAGTTTTATAAACTCA 726
```

RESULT 75  
US-10-633-843-57/c  
; Sequence 57, Application US/10633843  
; Publication No. US200400919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie

Qy 721 AACTCAGTTAAATGTCTGT 740  
|||  
Db 20 AACTCAGTTAAATGTCTGT 1

```

APPLICANT: Kenneth Dobie
TITLE OF INVENTION: ANTISENSE MODULATION
FILE REFERENCE: ISPH-0756
CURRENT APPLICATION NUMBER: US/10/633,843
CURRENT FILING DATE: 2003-08-04
PRIORITY APPLICATION NUMBER: US 09/888,360
PRIOR FILING DATE: 2001-06-21
NUMBER OF SEQ ID NOS: 90
SEQ ID NO 59
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence

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;
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-59

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 736 TCTGTTTCAATGACCTGTAT 755
Db 20 TCTGTTTCAATGACCTGTAT 1

RESULT 78
US-10-633-843-60/c
; Sequence 60, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 60
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-60

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 761 CAGACTTAATCAGATGG 780
Db 20 CAGACTTAATCAGATGG 1

RESULT 79
US-10-633-843-61/c
; Sequence 61, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 61
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-61

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCAGATGGGTATATAA 788
Db 20 AATCAGATGGGTATATAA 1
```

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RESULT 80
US-10-633-843-62/c
; Sequence 62, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-62

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 771 TCACAGATGGGTATATAA 790
Db 20 TCACAGATGGGTATATAA 1

RESULT 81
US-10-633-843-63/c
; Sequence 63, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-63

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 787 AACTGTGTCAGATTTCTTTG 806
Db 20 AACTGTGTCAGATTTCTTTG 1

RESULT 82
US-10-633-843-64/c
; Sequence 64, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
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RESULT 87
US-10-633-843-69/c
; Sequence 69, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 69
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-69

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 818 TGTGAATAAAACCTGTAT 837
DB 20 TGTGAATAAAACCTGTAT 1

RESULT 88
US-10-633-843-70/c
; Sequence 70, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 70
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-70

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 820 TGAATAAAACCTGTATGG 839
DB 20 TGAATAAAACCTGTATGG 1

RESULT 89
US-10-633-843-71/c
; Sequence 71, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04

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; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-71

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 825 AAAAACCTGTATGGCACTT 844
DB 20 AAAAACCTGTATGGCACTT 1

RESULT 90
US-10-633-843-72/c
; Sequence 72, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 72
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-72

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 829 ACCCTGTATGGCACTTATTA 848
DB 20 ACCCTGTATGGCACTTATTA 1

RESULT 91
US-10-633-843-73/c
; Sequence 73, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 73
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-73

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Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851  
|||||  
DB 20 CTGTATGGCACTTATTATGA 1

## RESULT 92

US-10-633-843-74/c  
; Sequence 74, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 74  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-74

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 833 TGTATGGCACTTATTATGAG 852  
|||||  
DB 20 TGTATGGCACTTATTATGAG 1

## RESULT 93

US-10-633-843-75/c  
; Sequence 75, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 75  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-75

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 835 TATGGCACTTATTATGAGGC 854  
|||||  
DB 20 TATGGCACTTATTATGAGGC 1

## RESULT 94

US-10-633-843-76/c

; Sequence 76, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:

; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 76  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-76

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 843 TTATTATGAGGCTATTAAAA 862  
|||||  
DB 20 TTATTATGAGGCTATTAAAA 1

## RESULT 95

US-10-633-843-77/c  
; Sequence 77, Application US/10633843  
; Publication No. US20040091919A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION  
; FILE REFERENCE: ISPH-0756  
; CURRENT APPLICATION NUMBER: US/10/633,843  
; CURRENT FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: US 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SEQ ID NO 77  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-843-77

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAGAAATCC 868  
|||||  
DB 20 TGAGGCTATTAAGAAATCC 1

## RESULT 96

US-10-672-866-4  
; Sequence 4, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26

; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 4  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: PCR Primer  
US-10-672-866-4

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 CGTGGCTAGCGAGTTATGG 68  
DB 1 CGTGGCTAGCGAGTTATGG 20

RESULT 97  
US-10-672-866-5/c  
; Sequence 5, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 5  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: PCR Primer  
US-10-672-866-5

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 108 TGCAGGGCATCATCAATTTC 127  
DB 20 TGCAGGGCATCATCAATTTC 1

RESULT 98  
US-10-672-866-13/c  
; Sequence 13, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360

; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 13  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-13

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 GAAGCCGTGTGCGTGTGA 92  
DB 20 GAAGCCGTGTGCGTGTGA 1

RESULT 99  
US-10-672-866-14/c  
; Sequence 14, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 14  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-14

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 78 CCGTGTGCGTGTGAAGGC 97  
DB 20 CCGTGTGCGTGTGAAGGC 1

RESULT 100  
US-10-672-866-15/c  
; Sequence 15, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 15

```
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-15

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      81 TGTGCGTCTGAAGGCGAC 100
      |||
Db      20 TGTGCGTCTGAAGGCGAC 1

RESULT 101
US-10-672-866-16/c
; Sequence 16, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 16
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-16

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GGTTCGCTGTCAGTCCTCG 33
      |||
Db      20 GGTTCGCTGTCAGTCCTCG 1

RESULT 102
US-10-672-866-17/c
; Sequence 17, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-17

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      19 CCGTTGCAGTCCTCGGAACC 38
      |||
Db      20 CCGTTGCAGTCCTCGGAACC 1

RESULT 103
US-10-672-866-18/c
; Sequence 18, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-18

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      23 TGCAGTCCTCGGAACCAGGA 42
      |||
Db      20 TGCAGTCCTCGGAACCAGGA 1

RESULT 104
US-10-672-866-19/c
; Sequence 19, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-19
```

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 GTCTCGGACAGGACCTC 46  
 DB 20 GTCTCGGACAGGACCTC 1

RESULT 105  
 US-10-672-866-20/c  
 ; Sequence 20, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 20  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-20

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 CAGGACCTCGGCTGGCCTA 57  
 DB 20 CAGGACCTCGGCTGGCCTA 1

RESULT 106  
 US-10-672-866-21/c  
 ; Sequence 21, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 21  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-21

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 GCCTAGGAGTATGGCGAC 72  
 DB 20 GCCTAGGAGTATGGCGAC 1

RESULT 107  
 US-10-672-866-22/c  
 ; Sequence 22, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 22  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-22

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 GCGACGGCCAGTCAGGGC 115  
 DB 20 GCGACGGCCAGTCAGGGC 1

RESULT 108  
 US-10-672-866-23/c  
 ; Sequence 23, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 23  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-23

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCAGGCGCATCAATT 125

Db 20 AGTCAGGGCATCATCAATT 1  
|||||

RESULT 109  
US-10-672-866-24/c  
; Sequence 24, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 24  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-24

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 AGGAAGTAAATGGACCAAGTG 154  
|||||  
Db 20 AGGAAGTAAATGGACCAAGTG 1

RESULT 110  
US-10-672-866-25/c  
; Sequence 25, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 25  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-25

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 TAATGGACCAAGTGAAGGTGT 161  
|||||  
Db 20 TAATGGACCAAGTGAAGGTGT 1

RESULT 111  
US-10-672-866-26/c  
; Sequence 26, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 26  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-26

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 ATGGACCAAGTGAAGGTGTGG 163  
|||||  
Db 20 ATGGACCAAGTGAAGGTGTGG 1

RESULT 112  
US-10-672-866-27/c  
; Sequence 27, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 27  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-27

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 TGGGGAAGCATTAAGGACT 180  
|||||  
Db 20 TGGGGAAGCATTAAGGACT 1

RESULT 113  
US-10-672-866-28/c

; Sequence 28, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 28  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-28

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 173 AAGGACTGACTGAAGGCCT 192  
|||||  
DB 20 AAGGACTGACTGAAGGCCT 1

RESULT 114  
US-10-672-866-29/c  
; Sequence 29, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 29  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-29

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 AAGGACTGACTGAAGGCCTG 193  
|||||  
DB 20 AAGGACTGACTGAAGGCCTG 1

RESULT 115  
US-10-672-866-30/c  
; Sequence 30, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 30  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-30

; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 30  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-30

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 205 TGTTTCATGAGTTTGAGATA 224  
|||||  
DB 20 TGTTTCATGAGTTTGAGATA 1

RESULT 116  
US-10-672-866-31/c  
; Sequence 31, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 31  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-31

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 GAGTTTGGAGATAATACAGC 231  
|||||  
DB 20 GAGTTTGGAGATAATACAGC 1

RESULT 117  
US-10-672-866-32/c  
; Sequence 32, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 32  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-32

```
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 32
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-32

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACACAGCGCTGTAC 240
Db 20 GATAATACACAGCGCTGTAC 1

RESULT 118
US-10-672-866-33/c
; Sequence 33, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-33

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 304 GCATGTTGGAGACTTGGCCA 323
Db 20 GCATGTTGGAGACTTGGCCA 1

RESULT 119
US-10-672-866-34/c
; Sequence 34, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
```

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; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 34
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-34

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 TTGGAGACTTGGCAATGTG 328
Db 20 TTGGAGACTTGGCAATGTG 1

RESULT 120
US-10-672-866-35/c
; Sequence 35, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-35

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 335 GACAAAGATGGTGTGCCGA 354
Db 20 GACAAAGATGGTGTGCCGA 1

RESULT 121
US-10-672-866-36/c
; Sequence 36, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
```

; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 36  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-36

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 337 CAAAGATGGTGGCCGATG 356  
 DB 20 CAAAGATGGTGGCCGATG 1

RESULT 122  
 US-10-672-866-37/c  
 ; Sequence 37, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 37  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-37

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 AGATGGTGGCCGATG 359  
 DB 20 AGATGGTGGCCGATG 1

RESULT 123  
 US-10-672-866-38/c  
 ; Sequence 38, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21

; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 38  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-38

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGGCCGATG 362  
 DB 20 TGGTGGCCGATG 1

RESULT 124  
 US-10-672-866-39/c  
 ; Sequence 39, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 39  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-39

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 ATTGGCCGACACTGGTGT 423  
 DB 20 ATTGGCCGACACTGGTGT 1

RESULT 125  
 US-10-672-866-40/c  
 ; Sequence 40, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 40  
 ; LENGTH: 20



```
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-40

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 409 CCGCACACTGGTGTCATG 428
Db 20 CCGCACACTGGTGTCATG 1

RESULT 126
US-10-672-866-41/c
; Sequence 41, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-41

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CCGCACACTGGTGTCATGA 429
Db 20 CCGCACACTGGTGTCATGA 1

RESULT 127
US-10-672-866-42/c
; Sequence 42, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-42

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAAACATTCC 536
Db 20 GATCGCCCAATAAACATTCC 1

RESULT 129
US-10-672-866-44/c
; Sequence 44, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-44

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 504 GTGGTGAATTTGGATCGCC 523
Db 20 GTGGTGAATTTGGATCGCC 1

RESULT 128
US-10-672-866-43/c
; Sequence 43, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-43
```

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 535 CCCTTGGATGCTCTGAGG 554  
 DB 20 CCCTTGGATGCTCTGAGG 1

RESULT 130  
 US-10-672-866-45/c  
 ; Sequence 45, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 45  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-45

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATC 575  
 DB 20 CCCTTAACCTCATCTGTTATC 1

RESULT 131  
 US-10-672-866-46/c  
 ; Sequence 46, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 46  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-46

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAATTTGTG 639  
 DB 20 ATCTTAAAGTGAATTTGTG 1

RESULT 132  
 US-10-672-866-47/c  
 ; Sequence 47, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 47  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-47

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 625 AAAAGTGAATTTGTGACT 644  
 DB 20 AAAAGTGAATTTGTGACT 1

RESULT 133  
 US-10-672-866-48/c  
 ; Sequence 48, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 48  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-48

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTTTAAAGTACCTCTAGTGAG 677  
 DB 20 TTTTAAAGTACCTCTAGTGAG 1

```
Db      20 TTTAAGTACCTGTAGTGA 1

RESULT 134
US-10-672-866-49/c
; Sequence 49, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-49

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      667 CCTGTAGTGAAGAACTGATT 686
Db      20 CCTGTAGTGAAGAACTGATT 1

RESULT 135
US-10-672-866-50/c
; Sequence 50, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-50

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      670 GTAGTGAAGAACTGATTAT 689
Db      20 GTAGTGAAGAACTGATTAT 1

RESULT 136
US-10-672-866-51/c
; Sequence 51, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-51

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      671 TAGTGAGAACTGATTATG 690
Db      20 TAGTGAGAACTGATTATG 1

RESULT 137
US-10-672-866-52/c
; Sequence 52, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-52

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      686 TTATGATCACTTGAAGATT 705
Db      20 TTATGATCACTTGAAGATT 1

RESULT 138
US-10-672-866-53/c
; Sequence 53, Application US/10672866
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; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-53

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      691 ATCACTTGAAGATTCTGAT 710
Db      20 ATCACTTGAAGATTCTGAT 1

RESULT 139
US-10-672-866-54/c
; Sequence 54, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-54

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      707 GTATAGTTTATAAACTCA 726
Db      20 GTATAGTTTATAAACTCA 1

RESULT 140
US-10-672-866-55/c
; Sequence 55, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
```

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; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-55

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      710 TAGTTTATAAACTCAGTT 729
Db      20 TAGTTTATAAACTCAGTT 1

RESULT 141
US-10-672-866-56/c
; Sequence 56, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-56

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      721 AACTCAGTTAAATGTCGT 740
Db      20 AACTCAGTTAAATGTCGT 1

RESULT 142
US-10-672-866-57/c
; Sequence 57, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
```

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; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-57

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 727 GTTAAATGCTGTTTCAAT 746
Db 20 GTTAAATGCTGTTTCAAT 1

RESULT 143
US-10-672-866-58/c
; Sequence 58, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 58
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-58

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 729 TAAATGCTGTTTCAATGA 748
Db 20 TAAATGCTGTTTCAATGA 1

RESULT 144
US-10-672-866-59/c
; Sequence 59, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 59
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-59

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 736 TCTGTTTCAATGACCTGTAT 755
Db 20 TCTGTTTCAATGACCTGTAT 1

RESULT 145
US-10-672-866-60/c
; Sequence 60, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 60
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-60

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 761 CAGACTTAAATCACAGATGG 780
Db 20 CAGACTTAAATCACAGATGG 1

RESULT 146
US-10-672-866-61/c
; Sequence 61, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 61
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-61
```

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; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 61
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-61

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCAGATGGGTATTAA 788
Db 20 AATCAGATGGGTATTAA 1

RESULT 147
US-10-672-866-62/c
; Sequence 62, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-62

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 771 TCACAGATGGGTATTAACT 790
Db 20 TCACAGATGGGTATTAACT 1

RESULT 148
US-10-672-866-63/c
; Sequence 63, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339

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```

; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-63

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 787 AACTGTGCAGAAATTTCTTTG 806
Db 20 AACTGTGCAGAAATTTCTTTG 1

RESULT 149
US-10-672-866-64/c
; Sequence 64, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-64

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 AGAATTTCTTGTCTTCAAA 814
Db 20 AGAATTTCTTGTCTTCAAA 1

RESULT 150
US-10-672-866-65/c
; Sequence 65, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 65
; LENGTH: 20
; TYPE: DNA

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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-65

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 801 TCCTTGTCATTCAAGCCTGT 820
Db 20 TCCTTGTCATTCAAGCCTGT 1

RESULT 151
US-10-672-866-66/c
; Sequence 66, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 66
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-66

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 805 TGTCAATTCAGCCTGTGAAT 824
Db 20 TGTCAATTCAGCCTGTGAAT 1

RESULT 152
US-10-672-866-67/c
; Sequence 67, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 67
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-67

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 812 CAAGCCTGTGAATAAAACC 831
Db 20 CAAGCCTGTGAATAAAACC 1

RESULT 153
US-10-672-866-68/c
; Sequence 68, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-68

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 814 AGCCTGTGAATAAAACCCT 833
Db 20 AGCCTGTGAATAAAACCCT 1

RESULT 154
US-10-672-866-69/c
; Sequence 69, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 69
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-69

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Best Local Similarity 100.0%; Pred. No. 79; Mismatches 0; Indels 0; Gaps 0;

QY 818 TGTGAATAAAACCCCTGTAT 837  
 Db 20 TGTGAATAAAACCCCTGTAT 1

RESULT 155  
 US-10-672-866-70/c  
 ; Sequence 70, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 70  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-70

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 820 TGAATAAAACCCCTGTATGG 839  
 Db 20 TGAATAAAACCCCTGTATGG 1

RESULT 156  
 US-10-672-866-71/c  
 ; Sequence 71, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 71  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-71

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 825 AAAAACCCCTGTATGGCACTT 844  
 Db 20 AAAAACCCCTGTATGGCACTT 1

RESULT 157  
 US-10-672-866-72/c  
 ; Sequence 72, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 72  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-72

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 829 ACCCTGTATGGCACTTATTA 848  
 Db 20 ACCCTGTATGGCACTTATTA 1

RESULT 158  
 US-10-672-866-73/c  
 ; Sequence 73, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 73  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-73

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851  
 Db 20 CTGTATGGCACTTATTATGA 1



## RESULT 159

US-10-672-866-74/c  
; Sequence 74, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 74  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-74

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 833 TGTATGGCACTTATTATGAG 852  
|||||  
DB 20 TGTATGGCACTTATTATGAG 1

## RESULT 160

US-10-672-866-75/c  
; Sequence 75, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 75  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-75

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 835 TATGGCACTTATTATGAGGC 854  
|||||  
DB 20 TATGGCACTTATTATGAGGC 1

## RESULT 161

US-10-672-866-76/c  
; Sequence 76, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 76  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-76

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 843 TTATTATGAGCTATTAAAA 862  
|||||  
DB 20 TTATTATGAGCTATTAAAA 1

## RESULT 162

US-10-672-866-77/c  
; Sequence 77, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 77  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-77

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAAAAATCC 868  
|||||  
DB 20 TGAGGCTATTAAAAAATCC 1

## RESULT 163

US-10-672-866-91/c  
; Sequence 91, Application US/10672866  
; Publication No. US20050019915A1

```

; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 91
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-91

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```

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 66 TGGCGACGAAGCGCGTGTGC 85
DB 20 TGGCGACGAAGCGCGTGTGC 1

```

```

RESULT 164
US-10-672-866-92/c
; Sequence 92, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 92
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-92

```

```

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 74 AAGCGCGTGTGCGTGTGAA 93
DB 20 AAGCGCGTGTGCGTGTGAA 1

```

```

RESULT 165
US-10-672-866-93/c
; Sequence 93, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie

```

```

; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 93
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-93

```

```

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 76 GCGCGTGTGCGTGTGAAGG 95
DB 20 GCGCGTGTGCGTGTGAAGG 1

```

```

RESULT 166
US-10-672-866-94/c
; Sequence 94, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 94
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-94

```

```

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 77 GCGCGTGTGCGTGTGAAGG 96
DB 20 GCGCGTGTGCGTGTGAAGG 1

```

```

RESULT 167
US-10-672-866-95/c
; Sequence 95, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION

```

; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 95  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-95

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 79 CGTGTGCGTCTGAAGGCG 98  
|||||  
Db 20 CGTGTGCGTCTGAAGGCG 1

RESULT 168  
US-10-672-866-96/c  
; Sequence 96, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Doble  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 96  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-96

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 80 GTGTGCGTCTGAAGGCGA 99  
|||||  
Db 20 GTGTGCGTCTGAAGGCGA 1

RESULT 169  
US-10-672-866-97/c  
; Sequence 97, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Doble  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26

; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 97  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-97

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 82 GTGCGTCTGAAGGCGACG 101  
|||||  
Db 20 GTGCGTCTGAAGGCGACG 1

RESULT 170  
US-10-672-866-98/c  
; Sequence 98, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Doble  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 98  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-98

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 83 TGCCTCTGAAGGCGACG 102  
|||||  
Db 20 TGCCTCTGAAGGCGACG 1

RESULT 171  
US-10-672-866-99/c  
; Sequence 99, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Doble  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360

Query Match	2.3%; Score 20; DB 1; Length 20;	Best Local Similarity	100.0%; Pred. No. 79;	Mismatches	0; Indels	0; Gaps
294 ATGAAGAGAGGCGATGTTGGA 313		20 ATGAAGAGAGGCGATGTTGGA 1				
295 TGAAGAGAGGCGATGTTGGA 314		20 TGAAGAGAGGCGATGTTGGA 1				
296 TGAAGAGAGGCGATGTTGGA 315		20 TGAAGAGAGGCGATGTTGGA 1				
297 TGAAGAGAGGCGATGTTGGA 316		20 TGAAGAGAGGCGATGTTGGA 1				
298 TGAAGAGAGGCGATGTTGGA 317		20 TGAAGAGAGGCGATGTTGGA 1				
299 TGAAGAGAGGCGATGTTGGA 318		20 TGAAGAGAGGCGATGTTGGA 1				
300 TGAAGAGAGGCGATGTTGGA 319		20 TGAAGAGAGGCGATGTTGGA 1				
301 TGAAGAGAGGCGATGTTGGA 320		20 TGAAGAGAGGCGATGTTGGA 1				
302 TGAAGAGAGGCGATGTTGGA 321		20 TGAAGAGAGGCGATGTTGGA 1				
303 TGAAGAGAGGCGATGTTGGA 322		20 TGAAGAGAGGCGATGTTGGA 1				
304 TGAAGAGAGGCGATGTTGGA 323		20 TGAAGAGAGGCGATGTTGGA 1				
305 TGAAGAGAGGCGATGTTGGA 324		20 TGAAGAGAGGCGATGTTGGA 1				
306 TGAAGAGAGGCGATGTTGGA 325		20 TGAAGAGAGGCGATGTTGGA 1				
307 TGAAGAGAGGCGATGTTGGA 326		20 TGAAGAGAGGCGATGTTGGA 1				
308 TGAAGAGAGGCGATGTTGGA 327		20 TGAAGAGAGGCGATGTTGGA 1				
309 TGAAGAGAGGCGATGTTGGA 328		20 TGAAGAGAGGCGATGTTGGA 1				
310 TGAAGAGAGGCGATGTTGGA 329		20 TGAAGAGAGGCGATGTTGGA 1				
311 TGAAGAGAGGCGATGTTGGA 330		20 TGAAGAGAGGCGATGTTGGA 1				
312 TGAAGAGAGGCGATGTTGGA 331		20 TGAAGAGAGGCGATGTTGGA 1				
313 TGAAGAGAGGCGATGTTGGA 332		20 TGAAGAGAGGCGATGTTGGA 1				
314 TGAAGAGAGGCGATGTTGGA 333		20 TGAAGAGAGGCGATGTTGGA 1				
315 TGAAGAGAGGCGATGTTGGA 334		20 TGAAGAGAGGCGATGTTGGA 1				
316 TGAAGAGAGGCGATGTTGGA 335		20 TGAAGAGAGGCGATGTTGGA 1				
317 TGAAGAGAGGCGATGTTGGA 336		20 TGAAGAGAGGCGATGTTGGA 1				
318 TGAAGAGAGGCGATGTTGGA 337		20 TGAAGAGAGGCGATGTTGGA 1				
319 TGAAGAGAGGCGATGTTGGA 338		20 TGAAGAGAGGCGATGTTGGA 1				
320 TGAAGAGAGGCGATGTTGGA 339		20 TGAAGAGAGGCGATGTTGGA 1				
321 TGAAGAGAGGCGATGTTGGA 340		20 TGAAGAGAGGCGATGTTGGA 1				
322 TGAAGAGAGGCGATGTTGGA 341		20 TGAAGAGAGGCGATGTTGGA 1				
323 TGAAGAGAGGCGATGTTGGA 342		20 TGAAGAGAGGCGATGTTGGA 1				
324 TGAAGAGAGGCGATGTTGGA 343		20 TGAAGAGAGGCGATGTTGGA 1				
325 TGAAGAGAGGCGATGTTGGA 344		20 TGAAGAGAGGCGATGTTGGA 1				
326 TGAAGAGAGGCGATGTTGGA 345		20 TGAAGAGAGGCGATGTTGGA 1				
327 TGAAGAGAGGCGATGTTGGA 346		20 TGAAGAGAGGCGATGTTGGA 1				
328 TGAAGAGAGGCGATGTTGGA 347		20 TGAAGAGAGGCGATGTTGGA 1				
329 TGAAGAGAGGCGATGTTGGA 348		20 TGAAGAGAGGCGATGTTGGA 1				
330 TGAAGAGAGGCGATGTTGGA 349		20 TGAAGAGAGGCGATGTTGGA 1				
331 TGAAGAGAGGCGATGTTGGA 350		20 TGAAGAGAGGCGATGTTGGA 1				
332 TGAAGAGAGGCGATGTTGGA 351		20 TGAAGAGAGGCGATGTTGGA 1				
333 TGAAGAGAGGCGATGTTGGA 352		20 TGAAGAGAGGCGATGTTGGA 1				
334 TGAAGAGAGGCGATGTTGGA 353		20 TGAAGAGAGGCGATGTTGGA 1				
335 TGAAGAGAGGCGATGTTGGA 354		20 TGAAGAGAGGCGATGTTGGA 1				
336 TGAAGAGAGGCGATGTTGGA 355		20 TGAAGAGAGGCGATGTTGGA 1				
337 TGAAGAGAGGCGATGTTGGA 356		20 TGAAGAGAGGCGATGTTGGA 1				
338 TGAAGAGAGGCGATGTTGGA 357		20 TGAAGAGAGGCGATGTTGGA 1				
339 TGAAGAGAGGCGATGTTGGA 358		20 TGAAGAGAGGCGATGTTGGA 1				
340 TGAAGAGAGGCGATGTTGGA 359		20 TGAAGAGAGGCGATGTTGGA 1				
341 TGAAGAGAGGCGATGTTGGA 360		20 TGAAGAGAGGCGATGTTGGA 1				
342 TGAAGAGAGGCGATGTTGGA 361		20 TGAAGAGAGGCGATG				

```
;
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-103

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 296 GAAGAGGCGCATGTTGGAGA 315
Db 20 GAAGAGGCGCATGTTGGAGA 1

RESULT 176
US-10-672-866-104/c
; Sequence 104, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 104
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-104

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 297 AAGAGGCGCATGTTGGAGAC 316
Db 20 AAGAGGCGCATGTTGGAGAC 1

RESULT 177
US-10-672-866-105/c
; Sequence 105, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-105

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 298 AAGAGGCGCATGTTGGAGAC 316
Db 20 AAGAGGCGCATGTTGGAGAC 1

RESULT 178
US-10-672-866-106/c
; Sequence 106, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 106
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-106

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 374 GTGATCTCACTCTCAGGAGA 393
Db 20 GTGATCTCACTCTCAGGAGA 1

RESULT 179
US-10-672-866-107/c
; Sequence 107, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 107
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-107

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GTGATCTCACTCTCAGGAGA 393
Db 20 GTGATCTCACTCTCAGGAGA 1
```

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 AGATGACTGGGCAAAAGGTG 455  
 Db 20 AGATGACTGGGCAAAAGGTG 1

RESULT 180  
 US-10-672-866-108/c  
 ; Sequence 108, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 108  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-108

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGGCAAAAGGTG 456  
 Db 20 GATGACTTGGGCAAAAGGTG 1

RESULT 181  
 US-10-672-866-109/c  
 ; Sequence 109, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 109  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-109

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 438 ATGACTTGGGCAAAAGGTGGA 457

Db 20 ATGACTTGGGCAAAAGGTGGA 1

RESULT 182  
 US-10-672-866-110/c  
 ; Sequence 110, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 110  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-110

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 439 TGACTTGGGCAAAAGGTGGA 458  
 Db 20 TGACTTGGGCAAAAGGTGGA 1

RESULT 183  
 US-10-672-866-111/c  
 ; Sequence 111, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 111  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-111

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 441 ACTTGGGCAAAAGGTGGAAT 460  
 Db 20 ACTTGGGCAAAAGGTGGAAT 1



; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 116  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-116

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 446 GCGAAGGTGGAATGAAGA 465  
DB 20 GCGAAGGTGGAATGAAGA 1

RESULT 189  
US-10-672-866-117/c  
; Sequence 117, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 117  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-117

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 447 GCGAAGGTGGAATGAAGA 466  
DB 20 GCGAAGGTGGAATGAAGA 1

RESULT 190  
US-10-672-866-118/c  
; Sequence 118, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242

; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 118  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-118

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 448 CAAAGTGGAAATGAAGAA 467  
DB 20 CAAAGTGGAAATGAAGAA 1

RESULT 191  
US-10-672-866-119/c  
; Sequence 119, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 119  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-119

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 449 AAAGTGGAAATGAAGAAAG 468  
DB 20 AAAGTGGAAATGAAGAAAG 1

RESULT 192  
US-10-672-866-120/c  
; Sequence 120, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242



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; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 120
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-120

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 450 AAGTGGAAATGAAGAAAGT 469
Db 20 AAGTGGAAATGAAGAAAGT 1

RESULT 193
US-10-672-866-121/c
; Sequence 121, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 121
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-121

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 451 AAGTGGAAATGAAGAAAGT 470
Db 20 AAGTGGAAATGAAGAAAGT 1

RESULT 194
US-10-672-866-122/c
; Sequence 122, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 122
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-122

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 452 GTGGAAATGAAGAAAGTAC 471
Db 20 GTGGAAATGAAGAAAGTAC 1

RESULT 195
US-10-672-866-123/c
; Sequence 123, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 123
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-123

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 453 GTGGAAATGAAGAAAGTACA 472
Db 20 GTGGAAATGAAGAAAGTACA 1

RESULT 196
US-10-672-866-124/c
; Sequence 124, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 124
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-124
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; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 124
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-124

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 454 TGGAAATGAAGAAAGTACAA 473
Db 20 TGGAAATGAAGAAAGTACAA 1

RESULT 197
US-10-672-866-125/c
; Sequence 125, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 125
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-125

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 455 GGAATGAAGAAAGTACAA 474
Db 20 GGAATGAAGAAAGTACAA 1

RESULT 198
US-10-672-866-126/c
; Sequence 126, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 126
; LENGTH: 20

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-126

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 456 GAAATGAAGAAAGTACAAAG 475
Db 20 GAAATGAAGAAAGTACAAAG 1

RESULT 199
US-10-672-866-127/c
; Sequence 127, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 127
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-127

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 457 AAATGAAGAAAGTACAAAGA 476
Db 20 AAATGAAGAAAGTACAAAGA 1

RESULT 200
US-10-672-866-128/c
; Sequence 128, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 128
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-128

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAAAGAC 477
DB 20 AATGAAGAAAGTACAAAGAC 1

RESULT 201
US-10-672-866-129/c
; Sequence 129, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-129

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 127 CGAGCAGAAAGTAAGTAATG 146
DB 20 CGAGCAGAAAGTAAGTAATG 1

RESULT 202
US-10-672-866-130/c
; Sequence 130, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 130
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-130

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Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 294 ATGAAGAGAGGCATGTTGGA 313
DB 20 ATGAAGAGAGGCATGTTGGA 1

RESULT 203
US-10-672-866-138/c
; Sequence 138, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 138
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-138

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAAGAATCC 868
DB 20 TGAGGCTATTAAAGAATCC 1

RESULT 204
US-10-672-866-168/c
; Sequence 168, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 168
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-168

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 73 GAAGCCGTGCTGCTGCTGA 92  
 Db 20 GAAGCCGTGCTGCTGCTGA 1

RESULT 205  
 US-10-672-866-169/c  
 ; Sequence 169, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 169  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-169

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 78 CCGTGTGCTGCTGAAGGC 97  
 Db 20 CCGTGTGCTGCTGAAGGC 1

RESULT 206  
 US-10-672-866-170/c  
 ; Sequence 170, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 170  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-170

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 81 TGTGCTGCTGAAGGCGAC 100  
 Db 20 TGTGCTGCTGAAGGCGAC 1

Db 20 TGTGCTGCTGAAGGCGAC 1

RESULT 207  
 US-10-672-866-250/c  
 ; Sequence 250, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 250  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-250

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 AGCCCGTGTGCTGCTGAAG 94  
 Db 20 AGCCCGTGTGCTGCTGAAG 1

RESULT 208  
 US-10-672-866-314/c  
 ; Sequence 314, Application US/10672866  
 ; Publication No. US20050019915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Kenneth Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
 ; TITLE OF INVENTION: SOLUBLE  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0242  
 ; CURRENT APPLICATION NUMBER: US/10/672,866  
 ; CURRENT FILING DATE: 2003-09-26  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 10/633,843  
 ; PRIOR FILING DATE: 2003-08-04  
 ; PRIOR APPLICATION NUMBER: 09/888,360  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 339  
 ; SEQ ID NO 314  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-672-866-314

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 440 GACTGGGCAAGGTGAAA 459  
 Db 20 GACTGGGCAAGGTGAAA 1

RESULT 209  
US-10-301-516-29  
; Sequence 29, Application US/10301516  
; Publication No. US20030180756A1  
; GENERAL INFORMATION:  
; APPLICANT: SHI, YANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE  
; FILE REFERENCE: HMV-084.01  
; CURRENT APPLICATION NUMBER: US/10/301,516  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: 60/366,478  
; PRIOR FILING DATE: 2002-03-21  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 29  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:  
; OTHER INFORMATION: Unknown wild-type siRNA p9  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: Unknown  
; OTHER INFORMATION: wild-type siRNA p9  
US-10-301-516-29

Query Match 2.3%; Score 20; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 81;  
Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGACT 331  
|||||:|||||:|||||  
DB 1 GAGACUUGGGCAUGUGACT 20

RESULT 210  
US-10-700-816-9  
; Sequence 9, Application US/10700816  
; Publication No. US20040192629A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Zuoshang  
; TITLE OF INVENTION: Allele-Specific RNA Interference  
; FILE REFERENCE: UNY-038  
; CURRENT APPLICATION NUMBER: US/10/700,816  
; PRIOR FILING DATE: 2003-11-04  
; PRIOR APPLICATION NUMBER: 60/423,507  
; PRIOR FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/488,283  
; PRIOR FILING DATE: 2003-07-18  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-700-816-9

Query Match 2.3%; Score 20; DB 1; Length 25;  
Best Local Similarity 80.0%; Pred. No. 92;  
Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGACT 331  
|||||:|||||:|||||  
DB 1 GAGACUUGGGCAUGUGACT 20

RESULT 211  
US-10-301-516-17  
; Sequence 17, Application US/10301516  
; Publication No. US20030180756A1  
; GENERAL INFORMATION:  
; APPLICANT: SHI, YANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE  
; FILE REFERENCE: HMV-084.01  
; CURRENT APPLICATION NUMBER: US/10/301,516  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: 60/366,478  
; PRIOR FILING DATE: 2002-03-21  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 17  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: target sequence  
US-10-301-516-17

Query Match 2.2%; Score 19.4; DB 1; Length 21;  
Best Local Similarity 95.2%; Pred. No. 91;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGCTGTGGCCGAT 355  
|||||:|||||:|||||  
DB 1 GACAAAGATGCTGTGGCCGAT 21

RESULT 212  
US-10-301-516-18/c  
; Sequence 18, Application US/10301516  
; Publication No. US20030180756A1  
; GENERAL INFORMATION:  
; APPLICANT: SHI, YANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE  
; FILE REFERENCE: HMV-084.01  
; CURRENT APPLICATION NUMBER: US/10/301,516  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: 60/366,478  
; PRIOR FILING DATE: 2002-03-21  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: target sequence  
US-10-301-516-18

Query Match 2.2%; Score 19.4; DB 1; Length 21;  
Best Local Similarity 95.2%; Pred. No. 91;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGCTGTGGCCGAT 355  
|||||:|||||:|||||  
DB 21 GACAAAGATGCTGTGGCCGAT 1

RESULT 213  
US-10-301-516-30  
; Sequence 30, Application US/10301516  
; Publication No. US20030180756A1  
; GENERAL INFORMATION:  
; APPLICANT: SHI, YANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE  
; FILE REFERENCE: HMV-084.01  
; CURRENT APPLICATION NUMBER: US/10/301,516  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: 60/366,478  
; PRIOR FILING DATE: 2002-03-21  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 17  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: target sequence  
US-10-301-516-30

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; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p10
US-10-301-516-30

Query Match      2.2%; Score 19.4; DB 1; Length 21;
Best Local Similarity 76.2%; Pred. No. 91;
Matches 16; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGACT 331
      |||||:|||||:|||||:|||||
Db 1 GGAGACUUGGGCAAAUGUGATT 21

RESULT 214
US-10-301-516-31
; Sequence 31, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p11
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p11
US-10-301-516-31

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 97;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
      :|||||:|||||:|||||:|||||
Db 1 UGGAGACUUGGGCAAAUGUG 19

RESULT 215
US-10-301-516-37/c
; Sequence 37, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION

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; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p9
US-10-301-516-37

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGAC 330
      |||||:|||||:|||||:|||||
Db 19 GAGACTTGGGCAATGTGAC 1

RESULT 216
US-10-301-516-38/c
; Sequence 38, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p10
US-10-301-516-38

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGA 329
      |||||:|||||:|||||:|||||
Db 19 GGAGACTTGGGCAATGTGA 1

RESULT 217
US-10-301-516-39/c
; Sequence 39, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION

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; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA pl1
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA pl1
US-10-301-516-39

Query Match      2.1%   Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      310 TGGAGACTTGGCAATGTG 328
DB      19  TGGAGACTTGGCAATGTG 1

RESULT 218
US-10-672-866-167/c
; Sequence 167, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 167
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-167

Query Match      2.1%   Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 1e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      65 ATGGCGACGAAGCCCGTGTG 84
DB      20  ATGGCGATGAAGCCCGTGTG 1

RESULT 219
US-10-672-866-171/c
; Sequence 171, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 167
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-167

Query Match      2.1%   Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 1e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      305 CATGTTGGAGACTTGGGCAA 324
DB      20  CATGTTGGAGACTTGGGCAA 1

RESULT 221
US-10-672-866-189/c
; Sequence 189, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
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; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 315
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-315

Query Match      2.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 77 GCGGTGTGCTGTGAAG 94
   |||||
Db 18 GCGGTGTGCTGTGAAG 1

RESULT 226
US-10-301-516-25
; Sequence 25, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p10
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p10
US-10-301-516-25

Query Match      2.0%; Score 17.8; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGACT 331
   |||||:|||||
Db 1 GGAGACUUGCGCAUGUGATT 21

RESULT 227
US-10-301-516-15
; Sequence 15, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15

; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-301-516-15

Query Match      2.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGA 329
   |||||
Db 1 GGAGACTTGGCAATGTGA 19

RESULT 228
US-10-301-516-16/c
; Sequence 16, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-301-516-16

Query Match      2.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGA 329
   |||||
Db 19 GGAGACTTGGCAATGTGA 1

RESULT 229
US-10-672-866-286/c
; Sequence 286, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 286
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

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;
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-286

Query Match          2.0%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
Db 20 TGGAGACCTGGGCAATGTG 2

RESULT 230
US-10-301-516-24
; Sequence 24, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; FEATURE:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p11
US-10-301-516-24

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.3e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
Db 1 UGGAGACUUGCGCAUGUG 19

RESULT 231
US-10-301-516-34/c
; Sequence 34, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11

;
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-286

Query Match          2.0%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
Db 20 TGGAGACCTGGGCAATGTG 2

RESULT 230
US-10-301-516-24
; Sequence 24, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; FEATURE:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p11
US-10-301-516-24

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.3e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
Db 1 UGGAGACUUGCGCAUGUG 19

RESULT 231
US-10-301-516-34/c
; Sequence 34, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11

;
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-286

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
Db 19 TGGAGACTTGGGCAATGTG 1

RESULT 232
US-10-301-516-35/c
; Sequence 35, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p10
US-10-301-516-35

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGA 329
Db 19 GGAGACTTGGGCAATGTGA 1

RESULT 233
US-10-301-516-36/c
; Sequence 36, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11
```

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; OTHER INFORMATION: Unknown mutant siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p9
US-10-301-516-36

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 312 GAGACTTGGCGCATGTGAC 330
Db 19 GAGACTTGGCGCATGTGAC 1

RESULT 234
US-10-672-866-194/c
; Sequence 194, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 194
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-194

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 345 GTGTGCCGCGATGTCTATT 364
Db 20 GTGTGCCGCGATGTCTATT 1

RESULT 235
US-10-672-866-195/c
; Sequence 195, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 195
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-195

; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-195

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 350 GCGAGTGTCTATTGAAGA 369
Db 20 GCGAGTGTCTATTGAAGA 1

RESULT 236
US-10-672-866-199/c
; Sequence 199, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 199
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-199

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 392 GACCATTCATTCATTCGCG 411
Db 20 GACCATTCATTCATTCGCG 1

RESULT 237
US-10-672-866-205/c
; Sequence 205, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-205
```

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 487 TGAAGTCGTTGGCTGTG 506  
DB 20 TGAAGCCGCTTGGCTGTG 1

RESULT 238  
US-10-672-866-207/c  
; Sequence 207, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 207  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-207

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 503 TGTGGTGAATGGGATGC 522  
DB 20 TGTGGTGAATGGGATGC 1

RESULT 239  
US-10-672-866-208/c  
; Sequence 208, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 208  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-208

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 506 GGTGAATGGGATGCCCA 525  
DB 20 GGTGAATGGGATGCCCA 1

RESULT 240  
US-10-672-866-209/c  
; Sequence 209, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 209  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-209

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 510 TAATTGGGATGCCCAATAA 529  
DB 20 TGATTGGGATGCCCAATAA 1

RESULT 241  
US-10-672-866-215/c  
; Sequence 215, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 215  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-215

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 562 ACTCATCTTATCTGCTA 581  
|||||

Db 20 ACTCATCTGCTGCTCCTGCTA 1

RESULT 242  
US-10-672-866-287/c  
; Sequence 287, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 287  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-287

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 312 GAGACTTGGCCCATGTGACT 331  
||||| ||||||| |||||

Db 20 GAGACCTGGCCCATGTGGCT 1

RESULT 243  
US-10-672-866-291/c  
; Sequence 291, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 291  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-291

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 348 TGGCCCATGTGTCTATTGAA 367  
||||| ||||||| |||||||

Db 20 TGGCCCATGTGTCTATTGAA 1

RESULT 244  
US-10-672-866-296/c  
; Sequence 296, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 296  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-296

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 489 GAAGTCGTTGGCTTGTGCT 508  
||||| ||||||| |||||||

Db 20 GAAGCCGCTTGGCTTGTGCT 1

RESULT 245  
US-10-672-866-297/c  
; Sequence 297, Application US/10672866  
; Publication No. US20050019915A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Kenneth Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,  
; TITLE OF INVENTION: SOLUBLE  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0242  
; CURRENT APPLICATION NUMBER: US/10/672,866  
; PRIOR FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/633,843  
; PRIOR FILING DATE: 2003-08-04  
; PRIOR APPLICATION NUMBER: 09/888,360  
; PRIOR FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 339  
; SEQ ID NO 297  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-672-866-297

Query Match 1.9%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 508 TGTATTGGATGCCCAAT 527  
||||| ||||||| |||||||

Db 20 TGTATTGGATGCCCAAT 1

RESULT 246  
US-10-190-366-126  
; Sequence 126, Application US/10190366

```

; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 126
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-190-366-126

Query Match      1.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      807 TCATTCAAGCCTGTGAAT 824
DB      3 TCATTCAAGCCTGTCAAT 20
|||||

RESULT 247
US-10-190-366-323/c
; Sequence 323, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 323
; LENGTH: 20
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
US-10-190-366-323

Query Match      1.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      807 TCATTCAAGCCTGTGAAT 824
DB      18 TCATTCAAGCCTGTCAAT 1
|||||

RESULT 248
US-10-672-866-159
; Sequence 159, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21

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; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 159
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-672-866-159

Query Match      1.8%; Score 16; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      87 TCCTCAAGGCGGACGG 102
DB      1 TGCTGAAGGCGGACGG 16
|||||

RESULT 249
US-10-333-429-260/c
; Sequence 260, Application US/10333429
; Publication No. US20040048265A1
; GENERAL INFORMATION:
; APPLICANT: GENSET
; TITLE OF INVENTION: Obesity Associated Biallelic Marker Maps
; FILE REFERENCE: G-083US02PCT
; CURRENT APPLICATION NUMBER: US/10/333,429
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: PCT/IB01/01477
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/219,704
; PRIOR FILING DATE: 2000-07-18
; NUMBER OF SEQ ID NOS: 579
; SOFTWARE: Patent.pm
; SEQ ID NO 260
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-32162 for SEQ 89,
US-10-333-429-260

Query Match      1.8%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      153 TCAAGGTGTGGGGAAG 168
DB      16 TCAAGGTGTGGGGAAG 1
|||||

RESULT 250
US-10-197-280A-27
; Sequence 27, Application US/10197280A
; Publication No. US20030163837A1
; GENERAL INFORMATION:
; APPLICANT: Aldwinckle, Herbert S.
; APPLICANT: Gaitan, Alvaro L.
; TITLE OF INVENTION: CONSTITUTIVE AND INDUCIBLE PROMOTERS FROM COFFEE PLANTS
; FILE REFERENCE: 19603/3262
; CURRENT APPLICATION NUMBER: US/10/197,280A
; CURRENT FILING DATE: 2002-07-16
; PRIOR APPLICATION NUMBER: 60/180,934
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 09/545,686
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 19
; TYPE: DNA

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide Primer
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (5)
; OTHER INFORMATION: N at any position in this sequence is either A, C,
; OTHER INFORMATION: G, or T.
US-10-197-280A-27

Query Match      1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGATTCCATGTTTCATG 212
      |||||
Db 1 ATGNTTCCATGTCATG 18

RESULT 251
US-10-484-577-356
; Sequence 356, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 356
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9)..(9)
; OTHER INFORMATION: r=a or g
US-10-484-577-356

Query Match      1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
      |||||
Db 2 GCAATGTGACTGCTGA 17

RESULT 252
US-10-672-866-139/c
; Sequence 139, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2003-08-04
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 148
```

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; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 139
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-139

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 129 AGCAGAAGGAAGTA 143
      |||||
Db 15 AGCAGAAGGAAGTA 1

RESULT 253
US-10-672-866-140/c
; Sequence 140, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 140
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-140

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 296 GAAGAGAGGCATGTT 310
      |||||
Db 15 GAAGAGAGGCATGTT 1

RESULT 254
US-10-672-866-148/c
; Sequence 148, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 148
```

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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-148

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      851 AGGCTATTAAAGAA 865
Db      15 AGGCTATTAAAGAA 1

RESULT 255
US-10-484-577-355/c
; Sequence 355, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 355
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8)..(8)
; OTHER INFORMATION: y=c or t
US-10-484-577-355

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      319 GGGCAATGTGACTGCTG 335
Db      17 GTGCAATGTACTGCTG 1

RESULT 256
US-09-863-086-102/c
; Sequence 102, Application US/09863086
; Patent No. US20020048762A1
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20020048762A1west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; CURRENT APPLICATION DATA: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A

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SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 102:
US-09-863-086-102

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      67 GGGGACGAGGCGCTG 82
Db      16 GCGGACGAGGACGTG 1

RESULT 257
US-09-863-086-104/c
; Sequence 104, Application US/09863086
; Patent No. US20020048762A1
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20020048762A1west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A

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;
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 104:
US-09-863-086-104

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGACGACGACGCGTG 82
DB 16 GCGACGACGACGCGTG 1

RESULT 258
US-09-780-533A-2234/c
; Sequence 2234, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780.533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2234
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2234

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872
DB 17 TTAAGAAGATCCAAAT 2

RESULT 259
US-09-780-533A-2326
; Sequence 2326, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
```

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;
; FILE REFERENCE: MHB00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780.533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2326
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2326

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 1.9e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 822 AATAAAACCCGTAT 837
DB 1 AAUAAAAACCCUGAU 16

RESULT 260
US-10-672-238-102/c
; Sequence 102, Application US/10672238
; Publication No. US20040053320A1
; GENERAL INFORMATION:
; APPLICANT: Rosseau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20040053320A1west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/672.238
; FILING DATE: 25-Sep-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 22-May-2001
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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FRAGMENT TYPE: <Unknown>  
ORIGINAL SOURCE:  
SEQUENCE DESCRIPTION: SEQ ID NO: 102:  
US-10-672-238-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.9e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGGAAGCGCTG 82  
Db 16 GCGCAGGAAGCGCTG 1

RESULT 261  
US-10-672-238-104/c  
Sequence 104, Application US/10672238  
Publication No. US20040053320A1  
GENERAL INFORMATION:  
APPLICANT: Roseau, Rudi  
TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER  
REGION BETWEEN THE 16S A  
NUMBER OF SEQUENCES: 104  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
STREET: 3100 No. US20040053320A1west Center, 90 S. 7th Street  
CITY: Minneapolis  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/672,238  
FILING DATE: 25-Sep-2003  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/863,086  
FILING DATE: <Unknown>  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/412,614  
FILING DATE: 22-May-2001  
APPLICATION NUMBER: 09/312,520  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/412,614  
FILING DATE: 29-WAR-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Hillson, Randall A  
REGISTRATION NUMBER: 31,838  
REFERENCE/DOCKET NUMBER: 8076.75USC1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 612/332-5300  
TELEFAX: 612/332/9081  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 104:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
MOLECULE TYPE: Genomic DNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: <Unknown>  
ORIGINAL SOURCE:  
SEQUENCE DESCRIPTION: SEQ ID NO: 104:  
US-10-672-238-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.9e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGGAAGCGCTG 82  
Db 16 GCGCAGGAAGCGCTG 1

RESULT 262  
US-10-484-577-353/c  
Sequence 353, Application US/10484577  
Publication No. US20050032724A1  
GENERAL INFORMATION:  
APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
FILE REFERENCE: F2285PCT-1  
CURRENT APPLICATION NUMBER: US/10/484,577  
CURRENT FILING DATE: 2004-01-22  
PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
PRIOR FILING DATE: 2002-07-23  
PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
PRIOR FILING DATE: 2001-07-23  
PRIOR APPLICATION NUMBER: EP 02011710.7  
PRIOR FILING DATE: 2002-05-24  
NUMBER OF SEQ ID NOS: 683  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 353  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-484-577-354  
Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.9e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
Db 2 GCAATGTGACTGCTGA 17

RESULT 264

QY 67 GCGCAGGAAGCGCTG 82  
Db 16 GCGCAGGAAGCGCTG 1

RESULT 262  
US-10-484-577-353/c  
Sequence 353, Application US/10484577  
Publication No. US20050032724A1  
GENERAL INFORMATION:  
APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
FILE REFERENCE: F2285PCT-1  
CURRENT APPLICATION NUMBER: US/10/484,577  
CURRENT FILING DATE: 2004-01-22  
PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
PRIOR FILING DATE: 2002-07-23  
PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
PRIOR FILING DATE: 2001-07-23  
PRIOR APPLICATION NUMBER: EP 02011710.7  
PRIOR FILING DATE: 2002-05-24  
NUMBER OF SEQ ID NOS: 683  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 353  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-484-577-353  
Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.9e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
Db 16 GCAATGTGACTGCTGA 1

RESULT 263  
US-10-484-577-354  
Sequence 354, Application US/10484577  
Publication No. US20050032724A1  
GENERAL INFORMATION:  
APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
FILE REFERENCE: F2285PCT-1  
CURRENT APPLICATION NUMBER: US/10/484,577  
CURRENT FILING DATE: 2004-01-22  
PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
PRIOR FILING DATE: 2002-07-23  
PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
PRIOR FILING DATE: 2001-07-23  
PRIOR APPLICATION NUMBER: EP 02011710.7  
PRIOR FILING DATE: 2002-05-24  
NUMBER OF SEQ ID NOS: 683  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 354  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-484-577-354  
Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.9e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
Db 2 GCAATGTGACTGCTGA 17

```
US-09-864-785-2135
; Sequence 2135, Application US/09864785
; Patent No. US20020177568A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Draper, Ken
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of NF-Kappa B
; FILE REFERENCE: 400/022 (MBH00-812-D)
; CURRENT APPLICATION NUMBER: US/09/864,785
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 3929
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2135
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-864-785-2135

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGGCACT 843
Db 3 CCCUGAUGGCACU 16

RESULT 265
US-09-864-785-2949
; Sequence 2949, Application US/09864785
; Patent No. US20020177568A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Draper, Ken
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of NF-Kappa B
; FILE REFERENCE: 400/022 (MBH00-812-D)
; CURRENT APPLICATION NUMBER: US/09/864,785
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 3929
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2949
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-864-785-2949

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGGCACT 843
Db 1 CCCUGAUGGCACU 14

RESULT 266
US-09-864-785-484/c
; Sequence 484, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
```

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; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 484
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-484

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 674 TGAGAACTGATT 687
Db 14 TGAGAACTGATT 1

RESULT 267
US-09-780-533A-1349/c
; Sequence 1349, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1349
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1349

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 674 TGAGAACTGATT 687
Db 17 TGAGAACTGATT 4

RESULT 268
US-09-780-533A-1996/c
; Sequence 1996, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
```

```

; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1996
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1996

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      674 TGAGAACTGATTT 587
DB      16 TGAGAACTGATTT 3

RESULT 269
US-10-633-843-54
; Sequence 54, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-54

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      3 AGTTTATAAACT 16

RESULT 270
US-10-633-843-55
; Sequence 55, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-55

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      6 AGTTTATAAACT 19

RESULT 271
US-10-672-866-54
; Sequence 54, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-54

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      3 AGTTTATAAACT 16

RESULT 272
US-10-672-866-55
; Sequence 55, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-55

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724

```

```
Db      |||||||
        6 AGTTTATAAACT 19

RESULT 273
US-09-866-108-8960
; Sequence 8960, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 8960
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-8960

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      183 CTGAAGCGCTGCATGGA 199
Db      1 CTGAAGCGCGACATGGA 17

RESULT 274
US-09-818-875-3142
; Sequence 3142, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.

RESULT 275
US-09-818-875-3143/c
; Sequence 3143, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-3143

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      676 AGAAACTGATTATGAT 692
Db      1 AGATACTCATTTATGAT 17

RESULT 276
US-09-780-533A-1097/c
; Sequence 1097, Application US/09780533A
; APPLICANT: Kmiec, Eric B.
```

```
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MEH800.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1097
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1097

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      730 AAAATGCTGTTTCAAT 746
Db      17 AAAATGTTTGTGCAAT 1

RESULT 277
US-09-740-332-2757
; Sequence 2757, Application US/09740332
; Publication No. US20030125270A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection
; FILE REFERENCE: RPI 400/003
; CURRENT APPLICATION NUMBER: US/09/740,332
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 9704
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2757
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE: NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-740-332-2757

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      271 CAGAAACACGGTGGC 287
Db      1 CAGAAGACACGGUGGAC 17

RESULT 278
US-09-817-879-2757
; Sequence 2757, Application US/09817879
; Publication No. US20030171311A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection
; FILE REFERENCE: MEH800-801-F
; CURRENT APPLICATION NUMBER: US/09/817,879
; CURRENT FILING DATE: 2001-03-26
```

```
; NUMBER OF SEQ ID NOS: 9703
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2757
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE: NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-817-879-2757

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      271 CAGAAACACGGTGGC 287
Db      1 CAGAAGACACGGUGGAC 17

RESULT 279
US-10-230-006-533/c
; Sequence 533, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDITIONS
; FILE REFERENCE: 400/056 (MEH801-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 533
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-533

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      91 GAAGGGCGAGCCCGCAG 107
Db      17 GAAGGGCGAGGGCCCGC 1

RESULT 280
US-10-230-006-534/c
; Sequence 534, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDITIONS
; FILE REFERENCE: 400/056 (MEH801-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 534
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-534
```

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 TGCTGAAGGCGGCGGC 103  
DB 17 TCGGAGGCGGAGGCGC 1

RESULT 281  
US-10-230-006-1258/c  
; Sequence 1258, Application US/10230006  
; Publication No. US20030191077A1  
; GENERAL INFORMATION:  
; APPLICANT: Fosebaugh, Kathy  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC COND  
; FILE REFERENCE: 400/056 (MEHB01-1110)  
; CURRENT APPLICATION NUMBER: US/10/230,006  
; CURRENT FILING DATE: 2002-11-18  
; PRIOR APPLICATION NUMBER: US 60/315,315  
; PRIOR FILING DATE: 2001-08-28  
; NUMBER OF SEQ ID NOS: 2678  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 1258  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-230-006-1258

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 89 CTCGAGGCGGACGGCC 105  
DB 17 CGGAGGCGGAGGCGCC 1

RESULT 282  
US-10-209-787-3142  
; Sequence 3142, Application US/10209787  
; Publication No. US20030217377A1  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; FILE REFERENCE: Napro-4  
; CURRENT APPLICATION NUMBER: US/10/209,787  
; CURRENT FILING DATE: 2002-07-30  
; PRIOR APPLICATION NUMBER: US 60/818,875  
; PRIOR FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4  
; SEQ ID NO 3142  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-209-787-3142

Query Match 1.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAAACTGATTTATGAT 692  
DB 1 AGATACTCATTATGAT 17

RESULT 283  
US-10-209-787-3143/c  
; Sequence 3143, Application US/10209787  
; Publication No. US20030217377A1  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; APPLICANT: Rice, Michael C.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; FILE REFERENCE: Napro-4  
; CURRENT APPLICATION NUMBER: US/10/209,787  
; CURRENT FILING DATE: 2002-07-30  
; PRIOR APPLICATION NUMBER: US 60/818,875  
; PRIOR FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4  
; SEQ ID NO 3143  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-209-787-3143

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTTATGAT 692  
DB 17 AGATACTCATTATGAT 1

RESULT 284  
US-10-261-185-3142  
; Sequence 3142, Application US/10261185  
; Publication No. US20040014057A1  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; APPLICANT: Rice, Michael C.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; FILE REFERENCE: Napro-4CON  
; CURRENT APPLICATION NUMBER: US/10/261,185  
; CURRENT FILING DATE: 2002-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/09761  
; PRIOR FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4

```
; SEQ ID NO 3142
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-261-185-3142

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      676 AGAACTGATTATGAT 692
      ||| ||| ||| ||| |||
Db       1 AGATACTCATTATGAT 17

RESULT 285
US-10-261-185-3143/c
; Sequence 3143, Application US/10261185
; Publication No. US20040014057A1
; GENERAL INFORMATION:
; APPLICANT: Knitec, Eric B.
; APPLICANT: Camper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4CON
; CURRENT APPLICATION NUMBER: US/10/261,185
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/09761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-261-185-3143

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      676 AGAACTGATTATGAT 692
      ||| ||| ||| ||| |||
Db       1 AGATACTCATTATGAT 17

RESULT 286
US-10-138-674-2787/c
; Sequence 2787, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2787
```

```
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-138-674-2787

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      543 TGTAGTCTGAGGCCCT 559
      ||| ||| ||| ||| |||
Db       17 TGCAGTCTGAGGTCCCT 1

RESULT 287
US-10-138-674-5100/c
; Sequence 5100, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5100
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-5100

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      239 ACCAGTGCAGGTCTCA 255
      ||| ||| ||| ||| |||
Db       17 ATCAGTGCAGGTCTCA 1

RESULT 288
US-10-138-674-6796
; Sequence 6796, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6796
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-6796

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```



QY 642 ACTTTTTCAGAGTTGCT 558  
 || :|||||: :  
 Db 1 ACGUUUCAGAGUUGGU 17

RESULT 289  
 US-10-138-674-7893/c  
 ; Sequence 7893, Application US/10138674  
 ; Publication No. US2004007565A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00-876-N (400/049)  
 ; CURRENT APPLICATION NUMBER: US/10/138,674  
 ; CURRENT FILING DATE: 2002-05-03  
 ; NUMBER OF SEQ ID NOS: 20822  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 7893  
 ; LENGTH: 17  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-10-138-674-7893

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGCTCCTCACT 257  
 |||||:|||||:  
 Db 17 CAGTGCAGCTCCTCACT 1

RESULT 290  
 US-10-287-949A-2787/c  
 ; Sequence 2787, Application US/10287949A  
 ; Publication No. US20040102389A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00-876-N (400/049)  
 ; CURRENT APPLICATION NUMBER: US/10/287,949A  
 ; CURRENT FILING DATE: 2003-04-11  
 ; NUMBER OF SEQ ID NOS: 20822  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 2787  
 ; LENGTH: 17  
 ; TYPE: RNA  
 ; ORGANISM: Mus musculus  
 US-10-287-949A-2787

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559  
 |||||:|||||:  
 Db 17 TGCAGTCTGAGGCCCT 1

RESULT 291  
 US-10-287-949A-5100/c  
 ; Sequence 5100, Application US/10287949A  
 ; Publication No. US20040102389A1

; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00-876-N (400/049)  
 ; CURRENT APPLICATION NUMBER: US/10/287,949A  
 ; CURRENT FILING DATE: 2003-04-11  
 ; NUMBER OF SEQ ID NOS: 20822  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 5100  
 ; LENGTH: 17  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-10-287-949A-5100

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 239 ACCAGTGCAGTCTCTCA 255  
 |||||:|||||:  
 Db 17 ATCAGTGCAGTCTCTCA 1

RESULT 292  
 US-10-287-949A-6796  
 ; Sequence 6796, Application US/10287949A  
 ; Publication No. US20040102389A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00-876-N (400/049)  
 ; CURRENT APPLICATION NUMBER: US/10/287,949A  
 ; CURRENT FILING DATE: 2003-04-11  
 ; NUMBER OF SEQ ID NOS: 20822  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 6796  
 ; LENGTH: 17  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-10-287-949A-6796

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 47.1%; Pred. No. 2.1e+02;  
 Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 642 ACTTTTTCAGAGTTGCT 658  
 || :|||||: :  
 Db 1 ACGUUUCAGAGUUGGU 17

RESULT 293  
 US-10-287-949A-7893/c  
 ; Sequence 7893, Application US/10287949A  
 ; Publication No. US20040102389A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00-876-N (400/049)

; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7893  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-7893

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGGTCCTCACT 257  
Db 17 CAGTGCAGCTCCTCAAT 1

## RESULT 294

US-10-669-841-5350  
; Sequence 5350, Application US/10669841  
; Publication No. US20040127446A1

## ; GENERAL INFORMATION:

; APPLICANT: Sirna Therapeutics, Inc.

; APPLICANT: Lawrence, Blatt

; APPLICANT: Dennis, Macejak

; APPLICANT: James, McSwiggen

; APPLICANT: David, Morrissey

; APPLICANT: Pamela, Pavco

; APPLICANT: Patricia, Lee

; APPLICANT: Kenneth, Draper

; APPLICANT: Elisabeth, Roberts

; TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEPATITIS A VIRUS

; FILE REFERENCE: 400/042US (MHB02-249-E)

; CURRENT APPLICATION NUMBER: US/10/669,841

; CURRENT FILING DATE: 2003-09-23

; PRIOR APPLICATION NUMBER: PCT/US02/09187

; PRIOR FILING DATE: 2002-03-26

; PRIOR APPLICATION NUMBER: US 60/296,876

; PRIOR FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: US 60/335,059

; PRIOR FILING DATE: 2001-10-24

; PRIOR APPLICATION NUMBER: US 60/337,055

; PRIOR FILING DATE: 2001-12-05

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

; PRIOR APPLICATION NUMBER: US 09/817,879

; PRIOR FILING DATE: 2001-03-26

; PRIOR APPLICATION NUMBER: US 09/740,332

; PRIOR FILING DATE: 2000-12-18

; PRIOR APPLICATION NUMBER: US 09/611,931

; PRIOR FILING DATE: 2000-07-07

; PRIOR APPLICATION NUMBER: US 09/504,321

; PRIOR FILING DATE: 2000-02-15

; Remaining Prior Application data removed - See File Wrapper or PALM.

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 5350

; LENGTH: 17

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION:

; OTHER INFORMATION: oligonucleotide substrate

US-10-669-841-5350

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 2.1e+02;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 271 CAGAAAACACGGTGGGC 287  
Db 1 CAGAAGACACGGUGGAC 17

## RESULT 295

US-10-723-361-8960

; Sequence 8960, Application US/10723361

; Publication No. US20040137589A1

## ; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: JI, Yonggang

; APPLICANT: PENN, Sharron G.

; APPLICANT: HANZEL, David K.

; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART ANI

; FILE REFERENCE: PB0105

; CURRENT APPLICATION NUMBER: US/10/723,361

; CURRENT FILING DATE: 2003-11-26

; PRIOR APPLICATION NUMBER: US 09/866,108

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 15755

; SOFTWARE: Aeonica Sequence Listing Engine

; SEQ ID NO 8960

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-723-361-8960

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 2.1e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 183 CTGAAGGCTCGCATGGA 199  
Db 1 CTGAAGGCGGACATGGA 17

## RESULT 296

US-10-681-074-3142

; Sequence 3142, Application US/10681074

; Publication No. US20040175722A1

## ; GENERAL INFORMATION:

; APPLICANT: KMEC, ERIC B.

; APPLICANT: VAN BRABANT, ANJA

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING SCREENING IN

; TITLE OF INVENTION: OLIGONUCLEOTIDE-DIRECTED NUCLEIC ACID SEQUENCE ALTERATION

; FILE REFERENCE: NaPro-18 US

```

; CURRENT APPLICATION NUMBER: US/10/681,074
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: US 60/453,360
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: US 60/416,983
; PRIOR FILING DATE: 2002-10-07
; NUMBER OF SEQ ID NOS: 4375
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3142
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-074-3142

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
   ||| ||| ||| ||| ||| |||
Db 1 AGATACTCATTTATGAT 17

RESULT 297
US-10-681-074-3143/c
; Sequence 3143, Application US/10681074
; Publication No. US20040175722A1
; GENERAL INFORMATION:
; APPLICANT: KMEC, ERIC B.
; APPLICANT: VAN BRAENT, ANJA
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING SCREENING IN
; FILE REFERENCE: NApTo-18 US
; CURRENT APPLICATION NUMBER: US/10/681,074
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: US 60/453,360
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: US 60/416,983
; PRIOR FILING DATE: 2002-10-07
; NUMBER OF SEQ ID NOS: 4375
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-074-3143

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
   ||| ||| ||| ||| ||| |||
Db 1 AGATACTCATTTATGAT 17

RESULT 298
US-10-712-633-1027/c
; Sequence 1027, Application US/10712633
; Publication No. US20040220128A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pamela
; APPLICANT: Sandberg, Jennifer
; APPLICANT: Gordon, Gilad
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: NUCLEIC ACID BASED MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACT
; FILE REFERENCE: RECEPTOR FOR THE TREATMENT OF ANGIOGENESIS RELATED DISEASES AND
; FILE REFERENCE: MHB02-325PCT (400/047)
; CURRENT APPLICATION NUMBER: US/10/712,633
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/005,974

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; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 09/708,690
; PRIOR FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: US 09/870,161
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 60/334,461
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US 10/138,674
; PRIOR FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 5989
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1027
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
US-10-712-633-1027

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGTCTCTCACT 257
   ||| ||| ||| ||| ||| |||
Db 17 CAGTGCAGTCTCTCAAT 1

RESULT 299
US-10-498-462-563/c
; Sequence 563, Application US/10498462
; Publication No. US20040259175A1
; GENERAL INFORMATION:
; APPLICANT: Guo, Jinjiao
; TITLE OF INVENTION: HUMAN PROSTATE CANCER CANDIDATE PROTEIN 1
; FILE REFERENCE: PB01102
; CURRENT APPLICATION NUMBER: US/10/498,462
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: US 60/339,764
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: PCT/US02/37506
; PRIOR FILING DATE: 2002-11-22
; NUMBER OF SEQ ID NOS: 3320
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 563
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-498-462-563

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 635 TTGTGTGACTTTTTCAG 651
   ||| ||| ||| ||| ||| |||
Db 17 TTCTGAGACTTTTTCAG 1

RESULT 300
US-10-641-960-157
; Sequence 157, Application US/10641960
; Publication No. US20050037366A1
; GENERAL INFORMATION:
; APPLICANT: Gut, Joseph
; TITLE OF INVENTION: INDIVIDUAL DRUG SAFETY
; FILE REFERENCE: DT-6622
; CURRENT APPLICATION NUMBER: US/10/641,960
; CURRENT FILING DATE: 2003-08-14
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: PatentIn Ver. 2.1

```

SEQ ID NO 157  
LENGTH: 15  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-641-960-157

Query Match 1.5%; Score 13.4; DB 1; Length 15;  
Best Local Similarity 93.3%; Pred. No. 2.1e+02;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 83 TCGTGCTGAAGGC 97  
DB 1 TCGTGCAAGAAGGC 15

## RESULT 301

US-10-608-062-2  
Sequence 2, Application US/10608062  
Publication No. US20040014122A1

GENERAL INFORMATION:  
APPLICANT: BREEN, ALEXANDER  
APPLICANT: SINGLETON, FREDDIE  
TITLE OF INVENTION: DETECTION OF SPORE FORMING BACTERIA  
FILE REFERENCE: B1113P  
CURRENT APPLICATION NUMBER: US/10/608,062  
CURRENT FILING DATE: 2003-06-27  
PRIOR APPLICATION NUMBER: US 09/356,677  
PRIOR FILING DATE: 1999-07-20  
PRIOR APPLICATION NUMBER: US 09/085,359  
PRIOR FILING DATE: 1998-05-27  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 2  
LENGTH: 16  
TYPE: DNA  
ORGANISM: Bacillus cereus  
US-10-608-062-2

Query Match 1.5%; Score 13.4; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 2.1e+02;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 429 AAAAAAGCAGTGACT 443  
DB 2 AAAAAAGCAGTTGACT 16

## RESULT 302

US-10-138-674-5942/c  
Sequence 5942, Application US/10138674  
Publication No. US2004007565A1  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells  
FILE REFERENCE: MBH00-876-N (400/049)  
CURRENT APPLICATION NUMBER: US/10/138,674  
CURRENT FILING DATE: 2002-05-03  
NUMBER OF SEQ ID NOS: 20822  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 5942  
LENGTH: 16  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-10-138-674-5942

Query Match 1.5%; Score 13.4; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 2.1e+02;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTCAGGTCCTCA 255  
DB 16 CAGTCAGGTCCTCA 2

## RESULT 303

US-10-287-949A-5942/c  
Sequence 5942, Application US/10287949A  
Publication No. US20040102389A1  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells  
FILE REFERENCE: MBH00-876-N (400/049)  
CURRENT APPLICATION NUMBER: US/10/287,949A  
CURRENT FILING DATE: 2003-04-11  
NUMBER OF SEQ ID NOS: 20822  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 5942  
LENGTH: 16  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-10-287-949A-5942

Query Match 1.5%; Score 13.4; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 2.1e+02;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTCAGGTCCTCA 255  
DB 16 CAGTCAGGTCCTCA 2

## RESULT 304

US-10-257-017B-154649/c  
Sequence 154649, Application US/10257017B  
Publication No. US20040241651A1  
GENERAL INFORMATION:  
APPLICANT: Alexander Olek  
APPLICANT: Christian Piepenbrock  
APPLICANT: Kurt Berlin  
TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine methylation  
FILE REFERENCE: E01/1193/WO  
CURRENT APPLICATION NUMBER: US/10/257,017B  
CURRENT FILING DATE: 2002-10-07  
PRIOR APPLICATION NUMBER: DE 10019173.8  
PRIOR FILING DATE: 2000-04-07  
NUMBER OF SEQ ID NOS: 382046  
SEQ ID NO 154649  
LENGTH: 13  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039096  
US-10-257-017B-154649

Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 527 TAAACATTCCTT 539  
DB 13 TAAACATTCCTT 1

## RESULT 305

US-10-257-017B-154650

```
; Sequence 156540, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 156540
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039466
US-10-257-017B-156540

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      527 TAAACATTCCTT 539
Db      1 TAAACATTCCTT 13

RESULT 306
US-10-257-017B-156539
; Sequence 156539, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 156539
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039466
US-10-257-017B-156539

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      706 TGTATAGTTTAT 718
Db      1 TGTATAGTTTAT 13

RESULT 307
US-10-257-017B-156540/c
; Sequence 156540, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
```

```
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 156540
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039466
US-10-257-017B-156540

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      706 TGTATAGTTTAT 718
Db      13 TGTATAGTTTAT 1

RESULT 308
US-10-257-017B-201017
; Sequence 201017, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 201017
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0049445
US-10-257-017B-201017

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      215 TTGGAGATAATA 227
Db      1 TTGGAGATAATA 13

RESULT 309
US-10-257-017B-201018/c
; Sequence 201018, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
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; SEQ ID NO 201018
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0049445
US-10-257-017B-201018

Query Match          1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 215 TTGTGGAGATAATA 227
    |||||
Db 13 TTGTGGAGATAATA 1

RESULT 310
US-10-440-464-42/c
; Sequence 42, Application US/10440464
; Publication No. US20040018528A1
; GENERAL INFORMATION:
; APPLICANT: DEPRIMO, SAMUEL
; APPLICANT: O'FARRELL, ANNE-MARIE
; APPLICANT: MORIMOTO, ALYSSA
; APPLICANT: SMOLICH, BEVERLY
; APPLICANT: MANNING, WILLIAM
; APPLICANT: WALTER, SARAH
; APPLICANT: CHERINGTON, JULIE
; APPLICANT: SCHILLING, JIM
; TITLE OF INVENTION: NOVEL BIOMARKERS OF TYROSINE KINASE INHIBITOR EXPOSURE
; FILE OF INVENTION: AND ACTIVITY IN MAMMALS
; FILE REFERENCE: 038602/1592
; CURRENT APPLICATION NUMBER: US/10/440,464
; CURRENT FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: 60/380,872
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/448,922
; PRIOR FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: 60/448,874
; PRIOR FILING DATE: 2003-02-24
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 42
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Probe
US-10-440-464-42

Query Match          1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 441 ACTTGGGCAAAGG 453
    |||||
Db 13 ACTTGGGCAAAGG 1

RESULT 311
US-10-138-674-7004
; Sequence 7004, Application US/10138674
; Publication No. US2004007565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH900-876-N (400/049)
```

```
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-7004

Query Match          1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 2.3e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCCATGAATAA 433
    ||:|||||
Db 4 GGUCCAUGAAAAA 16

RESULT 312
US-10-287-949A-7004
; Sequence 7004, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH900-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-7004

Query Match          1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 2.3e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCCATGAATAA 433
    ||:|||||
Db 4 GGUCCAUGAAAAA 16

RESULT 313
US-10-339-674-904/c
; Sequence 904, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 904
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (899026)...(899041)
; OTHER INFORMATION: Chromosome = 1 Strand = positive ConnectonObjectNumber = 1176
US-10-339-674-904

Query Match          1.5%; Score 12.8; DB 1; Length 16;
```

Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340  
Db 16 TGAGACTGATGACAAA 1

## RESULT 314

US-10-339-674-905  
; Sequence 905, Application US/10339674  
; Publication No. US20030204318A1  
; GENERAL INFORMATION:  
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.  
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.  
; FILE REFERENCE: Jim Zeiger Law Offices - 703-684-8333  
; CURRENT APPLICATION NUMBER: US/10/339,674  
; CURRENT FILING DATE: 2003-06-06  
; NUMBER OF SEQ ID NOS: 3537  
; SOFTWARE: Proprietary  
; SEQ ID NO 905  
; LENGTH: 16  
; TYPE: DNA  
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.  
; FEATURE:  
; LOCATION: (899026)...(899041)  
; OTHER INFORMATION: Chromosome = 1 Strand = negative ConnectonObjectNumber = 1175  
US-10-339-674-905

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340  
Db 1 TGAGACTGATGACAAA 16

## RESULT 315

US-10-339-674-906  
; Sequence 906, Application US/10339674  
; Publication No. US20030204318A1  
; GENERAL INFORMATION:  
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.  
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.  
; FILE REFERENCE: Jim Zeiger Law Offices - 703-684-8333  
; CURRENT APPLICATION NUMBER: US/10/339,674  
; CURRENT FILING DATE: 2003-06-06  
; NUMBER OF SEQ ID NOS: 3537  
; SOFTWARE: Proprietary  
; SEQ ID NO 906  
; LENGTH: 16  
; TYPE: DNA  
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.  
; FEATURE:  
; LOCATION: (899026)...(899041)  
; OTHER INFORMATION: Chromosome = 1 Strand = negative ConnectonObjectNumber = 1174  
US-10-339-674-906

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340  
Db 1 TGAGACTGATGACAAA 16

## RESULT 316

US-10-138-674-5969/c  
; Sequence 5969, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel  
; FILE REFERENCE: MEHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5969  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-5969

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTTCAGAG 653  
Db 16 TGTGACATTTTCAGTG 1

## RESULT 317

US-10-138-674-6103  
; Sequence 6103, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel  
; FILE REFERENCE: MEHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6103  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-6103

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 75.0%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 424 CCATGAAAAAGCAGAT 439  
Db 1 CCAUGAAAAUGCAAAU 16

## RESULT 318

US-10-287-949A-5969/c  
; Sequence 5969, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel  
; FILE REFERENCE: MEHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A

; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5969  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-5969

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 2.4e+02;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTTCAGAG 653  
Db 16 TGTGACATTTTCAGTG 1

## RESULT 319

US-10-287-949A-6103  
; Sequence 6103, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
; FILE REFERENCE: MBH00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6103  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-6103

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 75.0%; Pred. No. 2.4e+02;  
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 424 CCATGAAAAAGCAGAT 439  
Db 1 CCAUGAAAAUGCAAU 16

## RESULT 320

US-10-257-017B-227623/c  
; Sequence 227623, Application US/10257017B  
; Publication No. US20040241651A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Kurt Berlin  
; APPLICANT: Christian Piepenbrock  
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine  
; TITLE OF INVENTION: methylations  
; FILE REFERENCE: E01/1193/WO  
; CURRENT APPLICATION NUMBER: US/10/257,017B  
; CURRENT FILING DATE: 2002-10-07  
; PRIOR APPLICATION NUMBER: DE 10019173.8  
; PRIOR FILING DATE: 2000-04-07  
; NUMBER OF SEQ ID NOS: 382046  
; SEQ ID NO 227623  
; LENGTH: 13  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055504  
US-10-257-017B-227623

Query Match 1.4%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 2.2e+02;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 600 GATAAACATTAAA 612  
Db 13 RATAAACATTAAA 1

## RESULT 321

US-10-257-017B-227624  
; Sequence 227624, Application US/10257017B  
; Publication No. US20040241651A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Kurt Berlin  
; APPLICANT: Christian Piepenbrock  
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine  
; TITLE OF INVENTION: methylations  
; FILE REFERENCE: E01/1193/WO  
; CURRENT APPLICATION NUMBER: US/10/257,017B  
; CURRENT FILING DATE: 2002-10-07  
; PRIOR APPLICATION NUMBER: DE 10019173.8  
; PRIOR FILING DATE: 2000-04-07  
; NUMBER OF SEQ ID NOS: 382046  
; SEQ ID NO 227624  
; LENGTH: 13  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055504  
US-10-257-017B-227624

Query Match 1.4%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 2.2e+02;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 600 GATAAACATTAAA 612  
Db 1 RATAAACATTAAA 13

Search completed: April 14, 2005, 16:49:42  
Job time : 3 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:42:54 ; Search time 1 Seconds  
(without alignments)  
4.263 Million cell updates/sec

Title: US-10-672-866-3  
Perfect score: 874  
Sequence: 1 ctgcagctctgggtttcc.....tattaaagaatccaaattc 874

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5

Searched: 135 seqs, 2439 residues

Total number of hits satisfying chosen parameters: 270

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 135 summaries

Database : rge3.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	28	3.2	28	1	AR090891
2	28	3.2	28	1	AR090892
3	28	3.2	28	1	AR197926
4	28	3.2	28	1	AR197927
5	28	3.2	28	1	AR260080
6	28	3.2	28	1	AR260081
7	27.4	3.1	29	1	E06744
8	27	3.1	27	1	AX733368
9	24	2.7	24	1	AR061116
10	24	2.7	24	1	AR064690
11	24	2.7	24	1	AR528355
12	23	2.6	23	1	AX473370
13	23	2.6	23	1	AX473371
14	23	2.6	23	1	AX710079
15	23	2.6	23	1	AX710080
16	21.8	2.5	25	1	A06400
17	21.8	2.5	25	1	AR364465
18	21	2.4	21	1	BD144206
19	20.4	2.3	22	1	BD144209
20	20	2.3	21	1	AR061103
21	20	2.3	21	1	AR064682
22	20	2.3	21	1	I04213
23	20	2.3	21	1	I06878
24	20	2.3	21	1	AR528347
25	19.8	2.3	23	1	BD174099
26	19	2.2	19	1	BD144208
27	17	1.9	17	1	AX671956
28	17	1.9	17	1	AX673655
29	17	1.9	17	1	AX730213
30	17	1.9	17	1	AX733568
31	17	1.9	17	1	AX736487
32	17	1.9	17	1	AX739220
33	17	1.9	19	1	BD174097

C 34	17	1.9	21	1	AR061105	ACCESSION:AR061105
C 35	17	1.9	21	1	AR064684	ACCESSION:AR064684
C 36	17	1.9	21	1	AR528349	ACCESSION:AR528349
C 37	16.8	1.9	20	1	AR338227	ACCESSION:AR338227
C 38	16.8	1.9	21	1	AR061108	ACCESSION:AR061108
C 39	16.8	1.9	21	1	AR064687	ACCESSION:AR064687
C 40	16.8	1.9	21	1	AR528352	ACCESSION:AR528352
C 41	16	1.8	16	1	I04212	ACCESSION:I04212
C 42	16	1.8	16	1	I06877	ACCESSION:I06877
C 43	16	1.8	17	1	AX081870	ACCESSION:AX081870
C 44	16	1.8	17	1	AX737712	ACCESSION:AX737712
C 45	16	1.8	17	1	AX737721	ACCESSION:AX737721
C 46	16	1.8	18	1	AX378471	ACCESSION:AX378471
C 47	16	1.8	19	1	AR225282	ACCESSION:AR225282
C 48	15.6	1.8	17	1	AX706659	ACCESSION:AX706659
C 49	15.6	1.8	17	1	AX707589	ACCESSION:AX707589
C 50	15.4	1.8	17	1	BD255580	ACCESSION:BD255580
C 51	15.4	1.8	17	1	BD255581	ACCESSION:BD255581
C 52	15.4	1.8	17	1	I06872	ACCESSION:I06872
C 53	15	1.7	15	1	CQ821402	ACCESSION:CQ821402
C 54	15	1.7	15	1	CQ821408	ACCESSION:CQ821408
C 55	15	1.7	17	1	AX081871	ACCESSION:AX081871
C 56	15	1.7	17	1	AX706658	ACCESSION:AX706658
C 57	15	1.7	17	1	AX707588	ACCESSION:AX707588
C 58	15	1.7	17	1	AX732679	ACCESSION:AX732679
C 59	14.4	1.6	17	1	A16196	ACCESSION:A16196
C 60	14.4	1.6	17	1	A16242	ACCESSION:A16242
C 61	14.4	1.6	17	1	BD203207	ACCESSION:BD203207
C 62	14.4	1.6	17	1	BD255579	ACCESSION:BD255579
C 63	14.4	1.6	17	1	BD255582	ACCESSION:BD255582
C 64	14.4	1.6	17	1	BD257636	ACCESSION:BD257636
C 65	14.4	1.6	17	1	I23680	ACCESSION:I23680
C 66	14.4	1.6	17	1	I23682	ACCESSION:I23682
C 67	14.4	1.6	17	1	AR433547	ACCESSION:AR433547
C 68	14.4	1.6	17	1	AR433549	ACCESSION:AR433549
C 69	14.4	1.6	17	1	AX216792	ACCESSION:AX216792
C 70	14.4	1.6	17	1	AX216884	ACCESSION:AX216884
C 71	14.4	1.6	17	1	AX701183	ACCESSION:AX701183
C 72	14.4	1.6	17	1	AX706656	ACCESSION:AX706656
C 73	14.4	1.6	17	1	AX706657	ACCESSION:AX706657
C 74	14.4	1.6	17	1	AX707586	ACCESSION:AX707586
C 75	14.4	1.6	17	1	AX707587	ACCESSION:AX707587
C 76	14.4	1.6	17	1	AX731809	ACCESSION:AX731809
C 77	14.4	1.6	17	1	AX733720	ACCESSION:AX733720
C 78	14.4	1.6	17	1	AX735175	ACCESSION:AX735175
C 79	14.4	1.6	17	1	AX761994	ACCESSION:AX761994
C 80	14.4	1.6	18	1	CQ784352	ACCESSION:CQ784352
C 81	14	1.6	17	1	AR046169	ACCESSION:AR046169
C 82	14	1.6	17	1	AR046171	ACCESSION:AR046171
C 83	14	1.6	17	1	AR046173	ACCESSION:AR046173
C 84	14	1.6	17	1	I53221	ACCESSION:I53221
C 85	14	1.6	17	1	I53223	ACCESSION:I53223
C 86	14	1.6	17	1	I53225	ACCESSION:I53225
C 87	14	1.6	17	1	AX215042	ACCESSION:AX215042
C 88	14	1.6	17	1	AX215907	ACCESSION:AX215907
C 89	14	1.6	17	1	AX216554	ACCESSION:AX216554
C 90	13.8	1.6	17	1	BD257133	ACCESSION:BD257133
C 91	13.8	1.6	17	1	BD257134	ACCESSION:BD257134
C 92	13.8	1.6	17	1	BD257135	ACCESSION:BD257135
C 93	13.8	1.6	17	1	CQ624220	ACCESSION:CQ624220
C 94	13.8	1.6	17	1	I06874	ACCESSION:I06874
C 95	13.8	1.6	17	1	AR190462	ACCESSION:AR190462
C 96	13.8	1.6	17	1	AR325385	ACCESSION:AR325385
C 97	13.8	1.6	17	1	AR327698	ACCESSION:AR327698
C 98	13.8	1.6	17	1	AR329394	ACCESSION:AR329394
C 99	13.8	1.6	17	1	AR465283	ACCESSION:AR465283
C 100	13.8	1.6	17	1	AX081872	ACCESSION:AX081872
C 101	13.8	1.6	17	1	AX215655	ACCESSION:AX215655
C 102	13.8	1.6	17	1	AX265751	ACCESSION:AX265751
C 103	13.8	1.6	17	1	AX265752	ACCESSION:AX265752
C 104	13.8	1.6	17	1	AX691936	ACCESSION:AX691936
C 105	13.8	1.6	17	1	AX782232	ACCESSION:AX782232
C 106	13.4	1.5	15	1	CQ821404	ACCESSION:CQ821404

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107 13.4 1.5 1 CQ821409
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c 109 13.4 1.5 1 AR328540
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111 13 1.5 16 AR600643
112 13 1.5 13 BD263834
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114 13 1.5 13 BD263838
115 13 1.5 13 BD263840
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117 13 1.5 13 AX048322
118 13 1.5 13 AX048324
119 13 1.5 13 AX048326
120 13 1.5 16 CQ786469
121 12.8 1.5 16 CQ329602
122 12.8 1.5 16 A10669
123 12.8 1.5 16 CQ821403
124 12.8 1.5 16 AR328567
125 12.8 1.5 16 AR328701
126 12.4 1.4 1 AX040892
127 12.4 1.4 14 CQ821410
128 12.4 1.4 14 AX081113
129 12.4 1.4 15 I35229
130 12 1.4 15 AX085048
131 12 1.4 14 CQ828340
132 12 1.4 15 AR133678
133 12 1.4 15 I39110
134 12 1.4 15 I80907
135 12 1.4 15 AX377090
136 12 1.4 15 AX635353

ALIGNMENTS

RESULT 1
AR090891 28 bp DNA linear PAT 07-SEP-2000
LOCUS
DEFINITION Sequence 1011 from patent US 5994076.
ACCESSION AR090891
VERSION AR090891.1 GI:10017646
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1011 30-NOV-1999;
FEATURES
source
1..28
/mol_type="unassigned DNA"

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCGAGGCGCATCATCAATTCGAGCAG 133
Db 1 AGTCGAGGCGCATCATCAATTCGAGCAG 28

RESULT 2
AR090892/c 28 bp DNA linear PAT 07-SEP-2000
LOCUS
DEFINITION Sequence 1012 from patent US 5994076.
ACCESSION AR090892
VERSION AR090892.1 GI:10017647
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1012 30-NOV-1999;
FEATURES
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/mol_type="unassigned DNA"

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCGAGGCGCATCATCAATTCGAGCAG 133
Db 1 AGTCGAGGCGCATCATCAATTCGAGCAG 28

RESULT 3
AR197926 28 bp DNA linear PAT 20-APR-2002
LOCUS
DEFINITION Sequence 1011 from patent US 6352829.
ACCESSION AR197926
VERSION AR197926.1 GI:20247775
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6352829-A 1011 05-MAR-2002;
FEATURES
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Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCGAGGCGCATCATCAATTCGAGCAG 133
Db 1 AGTCGAGGCGCATCATCAATTCGAGCAG 28

RESULT 4
AR197927/c 28 bp DNA linear PAT 20-APR-2002
LOCUS
DEFINITION Sequence 1012 from patent US 6352829.
ACCESSION AR197927
VERSION AR197927.1 GI:20247776
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6352829-A 1012 05-MAR-2002;
FEATURES
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Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGCATTGCATC 403
Db 28 GATCTCACTCTCAGGAGCATTGCATC 1

AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1012 30-NOV-1999;
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Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGCATTGCATC 403
Db 28 GATCTCACTCTCAGGAGCATTGCATC 1

AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1012 30-NOV-1999;
FEATURES
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Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGCATTGCATC 403
Db 28 GATCTCACTCTCAGGAGCATTGCATC 1
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RESULT 5
LOCUS AR260080 28 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 1011 from patent US 6489455.
ACCESSION AR260080
VERSION AR260080.1 GI:27310591
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6489455-A 1011 03-DEC-2002;
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Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 106 AGTCAGGCGCATCATCAATTTCGAGCAG 133
Db 1 AGTCAGGCGCATCATCAATTTCGAGCAG 28
RESULT 6
LOCUS AR260081/c 28 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 1012 from patent US 6489455.
ACCESSION AR260081
VERSION AR260081.1 GI:27310592
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6489455-A 1012 03-DEC-2002;
FEATURES
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Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 376 GATCTCACTCTCAGGAGACCATTCGCATC 403
Db 28 GATCTCACTCTCAGGAGACCATTCGCATC 1
RESULT 7
LOCUS E06744 29 bp RNA linear PAT 29-SEP-1997
DEFINITION cDNA fragment.
ACCESSION E06744
VERSION E06744.1 GI:2174926
KEYWORDS JP 1994046860-A/2.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 29)
AUTHORS Suenaga,Y., Morino,T., Morita,M., Seiya,K. and Nakamura,T.
TITLE NEW DNA CAPABLE OF CODING HUMAN SOD AND MICROORGANISM HAVING THE
JOURNAL Patent: JP 1994046860-A 2 22-FEB-1994;
COMMENT NIPPON KAYAKU CO LTD
OS Homo sapiens
PN JP 1994046860-A/2
PD 22-FEB-1994
PF 25-SEP-1992 JP 1992279193
PI SUKENAGA YOSHIKAZU, MORINO TOMIO, MORITA MAKOTO, SEYA KENJI,
PI NAKAMURA TSUNERO
PC C12N15/53, C12N1/21//C12N9/02, (C12N1/21,C12R1:19), (C12N9/02, PC
C12R1:19);
CC strandedness: Double;
CC topology: Linear;
CC hypothetical: No;
CC anti-sense: No;
CC *source: tissue type=placenta;
EH Key _Location/Qualifiers
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FT Location/Qualifiers
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Query Match 3.1%; Score 27.4; DB 1; Length 29;
Best Local Similarity 96.6%; Pred. No. 8.2;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 39 AGGACCTCGCGTGGCCTAGCGAGTTATG 67
Db 1 AGGACCACCGCGTGGCCTAGCGAGTTATG 29
RESULT 8
LOCUS AX473368/c 27 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1 from Patent WO0203979.
ACCESSION AX473368
VERSION AX473368.1 GI:22207996
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Huang,P., Plunkett,W.K. and Feng,L.
TITLE Cancer therapeutics involving the administration of
2-methoxyestradiol and an agent that increases intracellular
superoxide anion
JOURNAL Patent: WO 0203979-A 1 17-JAN-2002;
Board of Regents, The University of Texas System (US)
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/note="Synthetic Primer"
Query Match 3.1%; Score 27; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 61 AGTTATGGCGACGAGCGCGTGTGCCT 87
Db 27 AGTTATGGCGACGAGCGCGTGTGCCT 1
RESULT 9
LOCUS AR061116/c 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 18 from patent US 5843641.
ACCESSION AR061116
VERSION AR061116.1 GI:5988807
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
COMMENT Unclassified.
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REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Methods for the diagnosis, of familial amyotrophic lateral
sclerosis
JOURNAL Patent: US 5843641-A 18 01-DEC-1998;
FEATURES
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/mol_type="unassigned DNA"

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCTGTC 579
Db 24 CCCTTAACATCATCTGTTATCTGTC 1

RESULT 10
LOCUS AR064690/c 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 13 from patent US 5849290.
ACCESSION AR064690
VERSION AR064690.1 GI:5994906
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Compounds and methods for the diagnosis, treatment and prevention
of diseases of cell death
JOURNAL Patent: US 5849290-A 13 15-DEC-1998;
FEATURES
source Location/Qualifiers
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/mol_type="unassigned DNA"

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCTGTC 579
Db 24 CCCTTAACATCATCTGTTATCTGTC 1

RESULT 11
LOCUS AR528355/c 24 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 13 from patent US 6723893.
ACCESSION AR528355
VERSION AR528355.1 GI:53916383
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE Mice having a mutant SOD-1-encoding transgene
JOURNAL Patent: US 6723893-A 13 20-APR-2004;
FEATURES
source Location/Qualifiers
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/mol_type="unassigned DNA"

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCTGTC 579
Db 24 CCCTTAACATCATCTGTTATCTGTC 1

REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Methods for the diagnosis, of familial amyotrophic lateral
sclerosis
JOURNAL Patent: US 5843641-A 18 01-DEC-1998;
FEATURES
source Location/Qualifiers
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Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCTGTC 579
Db 24 CCCTTAACATCATCTGTTATCTGTC 1

RESULT 12
LOCUS AX473370 23 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 3 from Patent WO0203979.
ACCESSION AX473370
VERSION AX473370.1 GI:22207998
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Huang,P., Plunkett,W.K. and Feng,L.
TITLE Cancer therapeutics involving the administration of
2-methoxyestradiol and an agent that increases intracellular
superoxide anion
JOURNAL Patent: WO 0203979-A 3 17-JAN-2002;
Board of Regents, The University of Texas System (US)
FEATURES
source Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Synthetic Primer"

Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGCGCGTGTGCTGCTGAA 93
Db 1 ACGAAGCGCGTGTGCTGCTGAA 23

RESULT 13
LOCUS AX473371/c 23 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 4 from Patent WO0203979.
ACCESSION AX473371
VERSION AX473371.1 GI:22207999
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Huang,P., Plunkett,W.K. and Feng,L.
TITLE Cancer therapeutics involving the administration of
2-methoxyestradiol and an agent that increases intracellular
superoxide anion
JOURNAL Patent: WO 0203979-A 4 17-JAN-2002;
Board of Regents, The University of Texas System (US)
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/db_xref="taxon:32630"
/note="Synthetic Primer"

Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 486 CTGGAAGTCGTTGGCTTGTGTT 508
Db 23 CTGGAAGTCGTTGGCTTGTGTT 1

RESULT 14
LOCUS AX710079 23 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 5 from Patent WO03016527.
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ACCESSION AX710079  
VERSION AX710079.1 GI:29786676  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Pincemail, J., Piette, J. and Marechal, D.  
TITLE Process for the detection of oxidative stress and kit for its  
implementation  
JOURNAL Patent: WO 03016527-A 5 27-FEB-2003;  
Probiox SA (BE)  
FEATURES  
source  
1. .23  
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Best Local Similarity 100.0%; Pred. No. 16;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 321 GCAATGCTGCTGCTGCAAGAT 343  
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Db 1 GCAATGCTGCTGCTGCAAGAT 23  
RESULT 15  
AX710080/c  
LOCUS AX710080 23 bp DNA linear PAT 10-APR-2003  
DEFINITION Sequence 6 from Patent WO03016527.  
ACCESSION AX710080  
VERSION AX710080.1 GI:29786677  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Pincemail, J., Piette, J. and Marechal, D.  
TITLE Process for the detection of oxidative stress and kit for its  
implementation  
JOURNAL Patent: WO 03016527-A 6 27-FEB-2003;  
Probiox SA (BE)  
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/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 2.6%; Score 23; DB 1; Length 23;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 383 CTCTCAGGAGACCATTCATCAT 405  
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Db 23 CTCTCAGGAGACCATTCATCAT 1  
RESULT 16  
A06400/c  
LOCUS A06400 25 bp DNA linear PAT 18-JUN-1993  
DEFINITION Oligonucleotide primer.  
ACCESSION A06400  
VERSION A06400.1 GI:412849  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1 (bases 1 to 25)  
JOURNAL Patent: WO 9000605-A 8 25-JAN-1990;

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QY 418 GGTGGTCCATGAAAAAGCAGATGAC 442  
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Db 25 GGTGGTCCATGAAAAAGCAGATGAC 1  
RESULT 17  
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LOCUS AR364465 25 bp DNA linear PAT 03-SEP-2003  
DEFINITION Sequence 19 from patent US 5290690.  
ACCESSION AR364465  
VERSION AR364465.1 GI:34427112  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Mrabet, N., Lasters, I., Stanssens, P., Matthysens, G., Wodak, S. and  
Quax, W. J.  
TITLE Methods and means for controlling the stability of proteins  
JOURNAL Patent: US 5290690-A 19 01-MAR-1994;  
FEATURES  
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/mol\_type="genomic DNA"  
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Best Local Similarity 92.0%; Pred. No. 23;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 418 GGTGGTCCATGAAAAAGCAGATGAC 442  
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Db 25 GGTGGTCCATGAAAAAGCAGATGAC 1  
RESULT 18  
BD144206/c  
LOCUS BD144206 21 bp DNA linear PAT 17-JAN-2003  
DEFINITION ALS model rat.  
ACCESSION BD144206  
VERSION BD144206.1 GI:27849964  
KEYWORDS JP 2002142610-A/2.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Aoki, M., Ito, Y., Miyoshi, I. and Kasai, N.  
TITLE ALS model rat  
JOURNAL Patent: JP 2002142610-A 2 21-MAY-2002;  
TOHOKU TECHNO ARCH CO LTD  
COMMENT OS Artificial Sequence  
FN JP 2002142610-A/2  
PD 21-MAY-2002  
PI MASASHI AOKI, YASUHIRO ITOYAMA, ICHIRO MIYOSHI, NORIYUKI KASAI, PC  
A01K67/027, A61K45/00, A61P25/02, C12N5/10, C12N15/09, C12N5/10, PC  
C12R1:91),  
CC C12N5/00, C12N15/00, (C12N5/00, C12R1:91)  
CC Description of Artificial Sequence: Oligonucleotide to act as a  
primer for  
CC PCR  
CC FH  
FT key  
FT source 1. .21

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FT          /organism='Artificial Sequence'.
FEATURES
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    Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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  Db 21 TCATCTGTTATCTCTGCTAGCT 1

RESULT 19
BD144209/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 22)
AUTHORS
  Aoki,M., Itoyama,Y., Miyoshi,I. and Kasai,N.
TITLE
  ALS model rat.
JOURNAL
  Patent: JP 2002142610-A 5 21-MAY-2002;
  TOHOKU TECHNO ARCH CO LTD
  OS Artificial Sequence
  PN JP 2002142610-A/5
  PD 21-MAY-2002
  PF 07-NOV-2000 JP 2000339567
  PI MASASHI AOKI,YASUHIITO ITOYAMA,ICHIRO MIYOSHI,NORIYUKI KASAI PC
  A01K67/027,A61K45/00,A61P25/02,C12N5/10,C12N15/09/(C12N5/10, PC
  C12R1:91),
  PC C12N5/00,C12N15/00,(C12N5/00,C12R1:91)
  CC Description of Artificial Sequence:Oligonucleotide to act as a
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  CC PCR
  CC Key
  FH Key
  FT source
  FT          /organism='Artificial Sequence'.
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    Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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  Db 22 GCATGGATTCATGTTTCATGAG 1

RESULT 20
AR061103/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 21)
AUTHORS
  Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE
  ALS model rat.
JOURNAL
  Patent: US 5843641-A 5 01-DEC-1998;
  Location/Qualifiers
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      /db_xref="taxon:32630"
  Query Match
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    Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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  Db 21 TCATCTGTTATCTCTGCTAGCT 1

RESULT 21
AR064682/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 21)
AUTHORS
  Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE
  Compounds and methods for the diagnosis, treatment and prevention
  of diseases of cell death
JOURNAL
  Patent: US 5849290-A 5 15-DEC-1998;
  Location/Qualifiers
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      /mol_type="unassigned DNA"
  Query Match
    Best Local Similarity 2.3%; Score 20; DB 1; Length 21;
    Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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  Db 21 CATCAATTTTCGAGCAGAGG 2

RESULT 22
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LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 21)
AUTHORS
  Hallewell,R.A. and Mullenbach,G.T.
TITLE
  Superoxide dismutase cloning and expression in microorganisms
JOURNAL
  Patent: EP 0138111-A1 9 24-APR-1985;
  Location/Qualifiers
    1..21
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      /mol_type="unassigned DNA"
  Query Match
    Best Local Similarity 2.3%; Score 20; DB 1; Length 21;
    Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 723 CTCAGTTAAATGTCGTGTTT 742
  Db 1 CTCAGTTAAATGTCGTGTTT 20

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RESULT 23
I06878
LOCUS       106878
DEFINITION  Sequence 9 from Patent EP 0340805.
ACCESSION   106878
VERSION     106878.1
KEYWORDS    GI:589855
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Hallelwell,R.A. and Mullenbach,G.T.
TITLE       Superoxide dismutase and expression in microorganisms
JOURNAL     Patent: EP 0340805-A1 9 08-NOV-1989;
FEATURES   Location/Qualifiers
            source
            1..21
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 723 CTCAGTTAAATGTCGTGTTT 742
Db 1 CTCAGTTAAATGTCGTGTTT 20

RESULT 24
AR528347/c
LOCUS       AR528347
DEFINITION  Sequence 5 from patent US 6723893.
ACCESSION   AR528347
VERSION     AR528347.1
KEYWORDS    GI:53916375
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE       Mice having a mutant SOD-1-encoding transgene
JOURNAL     Patent: US 6723893-A 5 20-APR-2004;
FEATURES   Location/Qualifiers
            source
            1..21
            /organism="unknown"
            /mol_type="genomic DNA"

Query Match      2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTTGAGCAGAGG 137
Db 21 CATCAATTTGAGCAGAGG 2

RESULT 25
BD174099
LOCUS       BD174099
DEFINITION  Method of treating disease in association with decrease in the
ACCESSION   BD174099
VERSION     BD174099.1
KEYWORDS    WO 02064169-A/12.
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1 (bases 1 to 23)
AUTHORS    Hattori,F., Sugimura,K. and Furuya,M.
TITLE       Method of treating disease in association with decrease in the
JOURNAL     expression of AOP-1 gene or AOP-1 and remedies for the disease
            Patent: WO 02064169-A 12 22-AUG-2002;

SUNTORY LTD,SUNTORY BIOMEDICAL RESEARCH LTD,FUMIYUKI HATTORI,
KEIJIRO SUGIMURA,MAYUMI FURUYA
OS Artificial Sequence
PN WO 02064169-A/12
PD 22-AUG-2002
PF 18-FEB-2002 WO 2002JP001358
PR 16-FEB-2001 JP 01P 041003
PI FUMIYUKI HATTORI,KEIJIRO SUGIMURA,MAYUMI FURUYA PC
A61K48/00,A61K31/711,A61K38/17,A61P9/02,A61P9/10,A61P29/00, PC
A61P19/02,
PC A61P25/00,A61P1/16,A61P13/12,G01N33/15,G01N33/50//C12N15/12 CC
Method of treating disease in association
with decrease in the
expression
CC of AOP-1 gene or AOP-1 and remedies for the disease FH Key
Location/Qualifiers
FT source
1..23
/organism='Artificial Sequence'.

FEATURES
source
1..23
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      2.3%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 33;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGCAATGTGACTG 332
Db 1 TGGAGACTTGGCAATGTGCTG 23

RESULT 26
BD144208/c
LOCUS       BD144208
DEFINITION  ALS model rat.
ACCESSION   BD144208
VERSION     BD144208.1
KEYWORDS    GI:27849966
SOURCE      JP 2002142610-A/4.
ORGANISM    synthetic construct
            other sequences; artificial sequences.
REFERENCE   1 (bases 1 to 19)
AUTHORS    Aoki,M., Itoyama,Y., Miyoshi,I. and Kasai,N.
TITLE       ALS model rat
JOURNAL     Patent: JP 2002142610-A 4 21-MAY-2002;
            TOHOKU TECHNO ARCH CO LTD
COMMENT     OS Artificial Sequence
            PN JP 2002142610-A/4
            PD 21-MAY-2002
            PF 07-NOV-2000 JP 2000339567
            PI MASASHI AOKI,YASUHIITO ITOYAMA,ICHIRO MIYOSHI,NORIYUKI KASAI PC
            A01K67/027,A61K45/00,A61P25/02,C12N5/10,C12N15/09//C12N5/10, PC
            C12R1:91),
            PC C12N5/00,C12N15/00,(C12N5/00,C12R1:91)
            CC Description of Artificial Sequence:Oligonucleotide to act as a

CC PCR primer for
CC PCR Location/Qualifiers
FH Key Location/Qualifiers
FT source
1..19
/organism='Artificial Sequence'.

FEATURES
source
1..19
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      2.2%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 547 GTCAGGCGCCCTTAATC 565
Db 19 GTCAGGCGCCCTTAATC 1

RESULT 27
LOCUS AX671956 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 401 from Patent WO03004526.
ACCESSION AX671956
VERSION AX671956.1 GI:29330304
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 401 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17

RESULT 28
LOCUS AX673655 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 2100 from Patent WO03004526.
ACCESSION AX673655
VERSION AX673655.1 GI:29332003
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 2100 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAAACAT 17
Db 1 GATCGCCCAATAAACAT 17

RESULT 29
LOCUS AX730213 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 1847 from Patent WO03025175.
ACCESSION AX730213
VERSION AX730213.1 GI:30509556
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 1847 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 363 TTGAAGATTCTGTGATC 379
Db 17 TTGAAGATTCTGTGATC 1

RESULT 30
LOCUS AX733568 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence S202 from Patent WO03025175.
ACCESSION AX733568
VERSION AX733568.1 GI:30512911
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5202 27-MAR-2003;
Molecular Engines Laboratories (FR)
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source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17

RESULT 31
LOCUS AX736487 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 2077 from Patent WO03025177.
ACCESSION AX736487
VERSION AX736487.1 GI:30515775
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens

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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Telerman,A., Anson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 2077 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17
RESULT 32
AX739220 17 bp DNA linear PAT 08-MAY-2003
LOCUS
DEFINITION Sequence 4810 from Patent WO03025177.
ACCESSION AX739220
VERSION AX739220.1 GI:30518517
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Telerman,A., Anson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 4810 27-MAR-2003;
Molecular Engines Laboratories (FR)
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1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 517 GATCGCCCAATAACAT 533
Db 1 GATCGCCCAATAACAT 17
RESULT 33
BD174097 19 bp DNA linear PAT 18-FEB-2003
LOCUS
DEFINITION Method of treating disease in association with decrease in the
expression of AOP-1 gene, or AOP-1 and remedies for the disease.
ACCESSION BD174097
VERSION BD174097.1 GI:28415432
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1 (bases 1 to 19)
REFERENCE Hattori,F., Sugimura,K. and Furuya,M.
AUTHORS
TITLE Method of treating disease in association with decrease in the
expression of AOP-1 gene or AOP-1 and remedies for the disease
JOURNAL Patent: WO 02064169-A 10 22-AUG-2002;
SUNTORY LTD, SUNTORY BIOMEDICAL RESEACH LTD, FUMIYUKI HATTORI,
KEIJIRO SUGIMURA, MAYUMI FURUYA
OS Artificial Sequence
PN WO 02064169-A/10
PD 22-AUG-2002
PF 18-FEB-2002 WO 2002JP001358
PR 18-FEB-2001 JP 01P 041003
PI FUMIYUKI HATTORI, KEIJIRO SUGIMURA, MAYUMI FURUYA PC
A61K48/00,A61K31/711,A61K38/17,A61P9/02,A61P9/10,A61P29/00, PC
A61P19/02,
PC A61P25/00,A61P1/16,A61P13/12,G01N33/15,G01N33/50//C12N15/12 CC
Method of treating disease in association
with decrease in the
expression
CC of AOP-1 gene or AOP-1 and remedies for the disease FH Key
FT source
FT Location/Qualifiers
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1. .19
/organism="Artificial Sequence".
Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
Query Match 1.9%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 292 GGATGAAGAGAGGCATG 308
Db 3 GGATGAAGAGAGGCATG 19
RESULT 34
AR061105/c
LOCUS
DEFINITION Sequence 7 from patent US 5843641.
ACCESSION AR061105
VERSION AR061105.1 GI:5988796
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Methods for the daignosis, of familial amyotrophic lateral
sclerosis
JOURNAL Patent: US 5843641-A 7 01-DEC-1998;
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1. .21
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5
RESULT 35
AR064684/c
LOCUS
DEFINITION Sequence 7 from patent US 5849290.
ACCESSION AR064684
VERSION AR064684.1 GI:5994900
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
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AUTHORS      Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE        Compounds and methods for the diagnosis, treatment and prevention
             of diseases of cell death
JOURNAL      Patent: US 5849290-A 7 15-DEC-1998;
FEATURES     Location/Qualifiers
source       1..21
             /organism="unknown"
             /mol_type="unassigned DNA"
Query Match  1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234
Db 21 GGAGATAATACACGAG 5

RESULT 36
AR528349/c
LOCUS        AR528349
DEFINITION  Sequence 7 from patent US 6723893.
ACCESSION   AR528349
VERSION     AR528349.1 GI:53916377
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE      Mice having a mutant SOD-1-encoding transgene
JOURNAL    Patent: US 6723893-A 7 20-APR-2004;
FEATURES   Location/Qualifiers
source     1..21
           /organism="unknown"
           /mol_type="genomic DNA"
Query Match  1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234
Db 21 GGAGATAATACACGAG 5

RESULT 37
AR338227/c
LOCUS        AR338227
DEFINITION  Sequence 48 from patent US 6569618.
ACCESSION   AR338227
VERSION     AR338227.1 GI:33724978
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Yasue,H. and Yoshimura,M.
TITLE      Diagnosis of diseases associated with coronary twitching
JOURNAL    Patent: US 6569618-A 48 27-MAY-2003;
FEATURES   Location/Qualifiers
source     1..20
           /organism="unknown"
           /mol_type="genomic DNA"
Query Match  1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 168 GCATTAAGGACTGACTGAA 187
Db 20 GCACTAAGGACTGCTGAA 1

AUTHORS      Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE        Compounds and methods for the diagnosis, treatment and prevention
             of diseases of cell death
JOURNAL      Patent: US 5849290-A 7 15-DEC-1998;
FEATURES     Location/Qualifiers
source       1..21
             /organism="unknown"
             /mol_type="unassigned DNA"
Query Match  1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234
Db 21 GGAGATAATACACGAG 5

RESULT 36
AR528349/c
LOCUS        AR528349
DEFINITION  Sequence 7 from patent US 6723893.
ACCESSION   AR528349
VERSION     AR528349.1 GI:53916377
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE      Mice having a mutant SOD-1-encoding transgene
JOURNAL    Patent: US 6723893-A 7 20-APR-2004;
FEATURES   Location/Qualifiers
source     1..21
           /organism="unknown"
           /mol_type="genomic DNA"
Query Match  1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234
Db 21 GGAGATAATACACGAG 5

RESULT 37
AR338227/c
LOCUS        AR338227
DEFINITION  Sequence 48 from patent US 6569618.
ACCESSION   AR338227
VERSION     AR338227.1 GI:33724978
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Yasue,H. and Yoshimura,M.
TITLE      Diagnosis of diseases associated with coronary twitching
JOURNAL    Patent: US 6569618-A 48 27-MAY-2003;
FEATURES   Location/Qualifiers
source     1..20
           /organism="unknown"
           /mol_type="genomic DNA"
Query Match  1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 168 GCATTAAGGACTGACTGAA 187
Db 20 GCACTAAGGACTGCTGAA 1

AUTHORS      Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE        Compounds and methods for the diagnosis, treatment and prevention
             of diseases of cell death
JOURNAL      Patent: US 5849290-A 7 15-DEC-1998;
FEATURES     Location/Qualifiers
source       1..21
             /organism="unknown"
             /mol_type="unassigned DNA"
Query Match  1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317
Db 2 ATATAGGCATGTTGGAGACT 21

RESULT 38
AR061108
LOCUS        AR061108
DEFINITION  Sequence 10 from patent US 5843641.
ACCESSION   AR061108
VERSION     AR061108.1 GI:5988799
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE      Methods for the diagnosis, of familial amyotrophic lateral
             sclerosis
JOURNAL    Patent: US 5843641-A 10 01-DEC-1998;
FEATURES   Location/Qualifiers
source     1..21
           /organism="unknown"
           /mol_type="unassigned DNA"
Query Match  1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317
Db 2 ATATAGGCATGTTGGAGACT 21

RESULT 39
AR064687
LOCUS        AR064687
DEFINITION  Sequence 10 from patent US 5849290.
ACCESSION   AR064687
VERSION     AR064687.1 GI:5994903
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE      Compounds and methods for the diagnosis, treatment and prevention
             of diseases of cell death
JOURNAL    Patent: US 5849290-A 10 15-DEC-1998;
FEATURES   Location/Qualifiers
source     1..21
           /organism="unknown"
           /mol_type="unassigned DNA"
Query Match  1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317
Db 2 ATATAGGCATGTTGGAGACT 21

RESULT 40
AR528352
LOCUS        AR528352
DEFINITION  Sequence 10 from patent US 6723893.
ACCESSION   AR528352
VERSION     AR528352.1 GI:53916380
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 21)
AUTHORS    Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE      Mice having a mutant SOD-1-encoding transgene
JOURNAL    Patent: US 6723893-A 10 20-APR-2004;
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FEATURES
  source
    Location/Qualifiers
      1..21
        /organism="unknown"
        /mol_type="genomic DNA"

Query Match
  1.8%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317
  1 |||||
  2 ATATAGGCATGTTGGAGACT 21

Db

RESULT 41
LOCUS
  104212/c
DEFINITION
  Sequence 8 from Patent EP 0138111.
ACCESSION
  104212
VERSION
  104212.1 GI:591829
KEYWORDS
  Unknown.
ORGANISM
  Unknown.
REFERENCE
  1 (bases 1 to 16)
  Hallewell,R.A. and Mullenbach,G.T.
  TITLE
    Superoxide dismutase cloning and expression in microorganisms
  JOURNAL
    Patent: EP 0138111-A1 8 24-APR-1985;
  FEATURES
    Location/Qualifiers
      1..16
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match
  1.8%; Score 16; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 157 GGTGTGGGGAAGCATT 172
  1 |||||
  16 GGTGTGGGGAAGCATT 1

Db

RESULT 42
LOCUS
  106877/c
DEFINITION
  Sequence 8 from Patent EP 0340805.
ACCESSION
  106877
VERSION
  106877.1 GI:599854
KEYWORDS
  Unknown.
ORGANISM
  Unknown.
REFERENCE
  1 (bases 1 to 16)
  Hallewell,R.A. and Mullenbach,G.T.
  TITLE
    Superoxide dismutase and expression in microorganisms
  JOURNAL
    Patent: EP 0340805-A1 8 08-NOV-1989;
  FEATURES
    Location/Qualifiers
      1..16
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match
  1.8%; Score 16; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 157 GGTGTGGGGAAGCATT 172
  1 |||||
  16 GGTGTGGGGAAGCATT 1

Db

RESULT 43
LOCUS
  AX081870/c
DEFINITION
  Sequence 114 from Patent WO0109183.
ACCESSION
  AX081870
VERSION
  AX081870.1 GI:13170677
KEYWORDS
  synthetic construct
  other sequences; artificial sequences.
ORGANISM
  1
  Brinkmann,U., Hoffmeyer,S., Eichelbaum,M. and Roots,I.
  Polymorphisms in the human mdr-1 gene and their use in diagnostic
  and therapeutic applications
  Patent: WO 0109183-A 114 08-FEB-2001;
  EPIDAUROS AG Biotechnologie Aktiengesellschaft (DE)
  FEATURES
    Location/Qualifiers
      1..17
        /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="synthetic"

Query Match
  1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
  1 |||||
  16 GCAATGTGACTGCTGA 1

Db

RESULT 44
LOCUS
  AX737712
DEFINITION
  Sequence 3302 from Patent WO03025177.
ACCESSION
  AX737712
VERSION
  AX737712.1 GI:30517000
KEYWORDS
  Homo sapiens (human)
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1
  Telerman,A., Anson,R. and Tuijinder,M.
  Sequences involved in phenomena of tumour suppression, tumour
  reversion, apoptosis and/or resistance to viruses and the use
  thereof as medicaments
  Patent: WO 03025177-A 3302 27-MAR-2003;
  Molecular Engines Laboratories (FR)
  FEATURES
    Location/Qualifiers
      1..17
        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"

Query Match
  1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
  1 |||||
  1 GATCACTTGGAGATT 16

Db

RESULT 45
LOCUS
  AX737721
DEFINITION
  Sequence 3311 from Patent WO03025177.
ACCESSION
  AX737721
VERSION
  AX737721.1 GI:30517009
KEYWORDS
  Homo sapiens (human)
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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FEATURES
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    Location/Qualifiers
      17 bp
        DNA
        linear
        PAT 08-MAY-2003

Query Match
  1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
  1 |||||
  1 GATCACTTGGAGATT 16

Db

RESULT 45
LOCUS
  AX737721
DEFINITION
  Sequence 3311 from Patent WO03025177.
ACCESSION
  AX737721
VERSION
  AX737721.1 GI:30517009
KEYWORDS
  Homo sapiens (human)
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE  
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.  
TITLE Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments  
JOURNAL Patent: WO 03025177-A 3111 27-MAR-2003;  
FEATURES Molecular Engines Laboratories (FR)  
source Location/Qualifiers  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1.8%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 52;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 517 GATGCCCAATAACA 532  
Db 1 GATGCCCAATAACA 16  
RESULT 46  
AX378471/c  
LOCUS AX378471 18 bp DNA linear PAT 18-MAR-2002  
DEFINITION Sequence 260 from Patent WO0206525.  
ACCESSION AX378471  
VERSION AX378471.1 GI:119574324  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.  
TITLE Obesity associated biallelic marker maps  
JOURNAL Patent: WO 0206525-A 260 24-JAN-2002;  
FEATURES GENSET (FR)  
source Location/Qualifiers  
1. .18  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
primer\_bind 1. .18  
/note="upstream amplification primer 99-32162 for SEQ 89"  
Query Match 1.8%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 153 TGAAGGTGTGGGAAG 168  
Db 16 TGAAGGTGTGGGAAG 1  
RESULT 47  
AR225282  
LOCUS AR225282 19 bp DNA linear PAT 26-SEP-2002  
DEFINITION Sequence 27 from patent US 6441273.  
ACCESSION AR225282  
VERSION AR225282.1 GI:23334504  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Aldwinckle,H.S. and Gaitan,A.L.  
TITLE Constitutive and inducible promoters from coffee plants  
JOURNAL Patent: US 6441273-A 27 27-AUG-2002;  
FEATURES Location/Qualifiers  
source 1. .19  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 1.8%; Score 16; DB 1; Length 19;  
Best Local Similarity 88.9%; Pred. No. 58;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 195 ATGGATTTCATGTTTCATG 212  
Db 1 ATGGTTTCATGTCATG 18  
RESULT 48  
AX706659  
LOCUS AX706659 17 bp DNA linear PAT 04-APR-2003  
DEFINITION Sequence 356 from Patent WO03013534.  
ACCESSION AX706659  
VERSION AX706659.1 GI:29563082  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Heinrich,G. and Kerb,R.  
TITLE Methods for the treatment of cancer with irinotecan based on CYP3A5  
JOURNAL Patent: WO 03013534-A 356 20-FEB-2003;  
FEATURES Epidaurus Biotechnologie AG (DE)  
source Location/Qualifiers  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
misc\_feature 9  
/note="r-a or g"  
Query Match 1.8%; Score 15.6; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 321 GCAATGTGACTGCTGA 336  
Db 2 GCAATGTGACTGCTGA 17  
RESULT 49  
AX707589  
LOCUS AX707589 17 bp DNA linear PAT 04-APR-2003  
DEFINITION Sequence 356 from Patent WO03013536.  
ACCESSION AX707589  
VERSION AX707589.1 GI:29563762  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Heinrich,G. and Kerb,R.  
TITLE Methods for treatment of cancer using irinotecan based on UGT1A1  
JOURNAL Patent: WO 03013536-A 356 20-FEB-2003;  
FEATURES Epidaurus Biotechnologie AG (DE)  
source Location/Qualifiers  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
misc\_feature 9  
/note="r-a or g"  
Query Match 1.8%; Score 15.6; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 321 GCAATGTGACTGCTGA 336

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Db      2  GCAATGTRACTGCTGA 17

RESULT 50
BD255580/c
LOCUS      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD255580
VERSION     BD255580.1 GI:33065350
KEYWORDS   JP 2002541795-A/3373.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE     Regulation of repressor genes using nucleic acid molecules
JOURNAL   RIBOZYME PHARMACEUTICALS INC
COMMENT   OS Eukaryote
          PN JP 2002541795-A/3373
          PD 10-DEC-2002
          PF 11-APR-2000 JP 2000611654
          PR 12-APR-1999 US 60/129390
          PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
          C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
          C12P21/02,
          PC
          C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
          C12R1:91),
          PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
          PC A61K37/02,
          PC (C12N5/00,C12R1:91)
          CC Regulation of repressor genes using nucleic acid molecules FH
          Key Location/Qualifiers
          FT source 1..17
          FT /organism='Eukaryote'.

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source
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/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

COMMENT
QY 458 AATGAAGAAAGTACAAAG 475
Db 17 AATGAAGAAATACAAAG 1
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RESULT 51
BD255581/c
LOCUS      17 bp      DNA      linear      PAT 02-DEC-1994
DEFINITION Sequence 3 from Patent EP 0340805.
ACCESSION  I06872
VERSION     I06872.1 GI:589849
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Hallewell,R.A. and Mullenbach,G.T.
TITLE     Superoxide dismutase and expression in microorganisms
JOURNAL   Patent: EP 0340805-A1 3 08-NOV-1989;
          Location/Qualifiers
          FT source 1..17
          FT /organism='unknown'
          FT /mol_type='unassigned DNA'

Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

COMMENT
QY 122 AATTCGAGCAGGAAGGA 138
Db 17 AATTCGAGCAGGAAGGA 1
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RESULT 53
CQ821402
LOCUS      15 bp      DNA      linear      PAT 14-JUN-2004
DEFINITION Sequence 8 from Patent WO2004038019.
ACCESSION  CQ821402
VERSION     CQ821402.1 GI:48716051
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
REFERENCE  1
AUTHORS   Beeson,D., Wood,M. and Abdelgany,A.
TITLE     Dnzyme cleaving mutant polynucleotides
JOURNAL   Patent: WO 2004038019-A 8 06-MAY-2004;
          ISIS INNOVATION LIMITED (GB)
          Location/Qualifiers
          FT source 1..15
          FT /organism='Homo sapiens'

Db      2  GCAATGTRACTGCTGA 17

RESULT 50
BD255580/c
LOCUS      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD255580
VERSION     BD255580.1 GI:33065350
KEYWORDS   JP 2002541795-A/3373.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE     Regulation of repressor genes using nucleic acid molecules
JOURNAL   RIBOZYME PHARMACEUTICALS INC
COMMENT   OS Eukaryote
          PN JP 2002541795-A/3373
          PD 10-DEC-2002
          PF 11-APR-2000 JP 2000611654
          PR 12-APR-1999 US 60/129390
          PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
          C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
          C12P21/02,
          PC
          C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
          C12R1:91),
          PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
          PC A61K37/02,
          PC (C12N5/00,C12R1:91)
          CC Regulation of repressor genes using nucleic acid molecules FH
          Key Location/Qualifiers
          FT source 1..17
          FT /organism='Eukaryote'.

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source
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/organism='unidentified'
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Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

COMMENT
QY 459 ATGAAGAAAGTACAAAG 475
Db 17 ATGAAGAAATACAAAG 1
|||||
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RESULT 51
BD255581/c
LOCUS      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD255581
VERSION     BD255581.1 GI:33065351
KEYWORDS   JP 2002541795-A/3374.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE     Regulation of repressor genes using nucleic acid molecules
JOURNAL   RIBOZYME PHARMACEUTICALS INC
COMMENT   OS Eukaryote
          PN JP 2002541795-A/3374
          PD 10-DEC-2002
          PF 11-APR-2000 JP 2000611654
          PR 12-APR-1999 US 60/129390
          PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
          C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 95 GGCACGCGCCCACTG 109
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Db 1 GGCACGCGCCCACTG 15

RESULT 54
LOCUS      CQ821408
DEFINITION Sequence 14 from Patent WO2004038019.
ACCESSION  CQ821408
VERSION    CQ821408.1 GI:48716057
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Beeson,D., Wood,M. and Abdelgany,A.
TITLE      Dnazyme cleaving mutant polynucleotides
JOURNAL    Patent: WO 2004038019-A 14 06-MAY-2004;
            ISIS INNOVATION LIMITED (GB)
FEATURES   Location/Qualifiers
            source
            1..15
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGGCAA 451
    |||||
Db 1 GATGACTTGGGCAA 15

RESULT 55
LOCUS      AX081871/c
DEFINITION Sequence 115 from Patent WO0109183.
ACCESSION  AX081871
VERSION    AX081871.1 GI:13170678
KEYWORDS   synthetic construct
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE   1
AUTHORS    Brinkmann,U., Hoffmeyer,S., Eichelbaum,M. and Roots,I.
TITLE      Polymorphisms in the human mdr-1 gene and their use in diagnostic
            and therapeutic applications
JOURNAL    Patent: WO 0109183-A 115 08-FEB-2001;
            EPIDAUROS AG Biotechnologie Aktiengesellschaft (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 319 GGCACATGTCAGCTG 335
    |||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 56
LOCUS      AX706658/c
DEFINITION Sequence 355 from Patent WO03013534.
ACCESSION  AX706658
VERSION    AX706658.1 GI:29563081
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Heinrich,G. and Kerb,R.
TITLE      Methods for the treatment of cancer with irinotecan based on CYP3A5
JOURNAL    Patent: WO 03013534-A 355 20-FEB-2003;
            EpidauROS Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
            misc_feature
            8
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGCACATGTCAGCTG 335
    |||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 57
LOCUS      AX707588/c
DEFINITION Sequence 355 from Patent WO03013536.
ACCESSION  AX707588
VERSION    AX707588.1 GI:29563761
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Heinrich,G. and Kerb,R.
TITLE      Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL    Patent: WO 03013536-A 355 20-FEB-2003;
            EpidauROS Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
            misc_feature
            8
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 319 GGCACATGTCAGCTG 335
    |||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 58
LOCUS      AX732679
DEFINITION Sequence 4313 from Patent WO03025175.
ACCESSION  AX732679
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VERSION  AX732679.1  GI:30512022
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE 1
AUTHORS   Teلمان,A., Anson,R. and Tuijinder,M.
TITLE     Sequences involved in phenomena of tumour suppression, tumour
          reversion, apoptosis and/or virus resistance and their use as
          medicines
JOURNAL   Patent: WO 03025175-A 4313 27-MAR-2003;
          Molecular Engines Laboratories (FR).
FEATURES  source
          1..17
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match 1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 811 TCAAGCCTGTGAATA 825
Db 3 TCAAGCCTGTGAATA 17

RESULT 59
AL6196/c
LOCUS     Al6196
DEFINITION Oligonucleotide primer pair 2, second.
ACCESSION Al6196
VERSION   Al6196.1  GI:583046
KEYWORDS  synthetic construct
SOURCE    synthetic construct
          other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 17)
AUTHORS   Rossau,Rudi. and Van Heuverswijn,Hugo.
TITLE     Hybridization probes derived from the spacer region between the 16S
          and 23S rRNA genes for the detection of non-viral microorganisms
JOURNAL   Patent: EP 0452596-A 4 23-OCT-1991;
          N.V. INNOGENETICS S.A.
FEATURES  source
          1..17
          /organism="synthetic construct"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32630"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGACGACGAGCGCGTG 82
Db 16 GCGACGACGAGCGCGTG 1

RESULT 60
AL6242/c
LOCUS     Al6242
DEFINITION Oligonucleotide primer AP23.
ACCESSION Al6242
VERSION   Al6242.1  GI:583092
KEYWORDS  synthetic construct
SOURCE    synthetic construct
          other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 17)
AUTHORS   Rossau,Rudi. and Van Heuverswijn,Hugo.
TITLE     Hybridization probes derived from the spacer region between the 16S
          and 23S rRNA genes for the detection of non-viral microorganisms

JOURNAL   Patent: EP 0452596-A 50 23-OCT-1991;
          N.V. INNOGENETICS S.A.
FEATURES  source
          1..17
          /organism="synthetic construct"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32630"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGACGACGAGCGCGTG 82
Db 16 GCGACGACGAGCGCGTG 1

RESULT 61
BD203207/c
LOCUS     BD203207
DEFINITION Method and reagent for treating diseases or conditions concerning
          molecule participating in vasculogenic response.
ACCESSION BD203207
VERSION   BD203207.1  GI:33012977
KEYWORDS  JP 2002509721-A/6233.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 17)
AUTHORS   Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
TITLE     Method and reagent for treating diseases or conditions concerning
          molecule participating in vasculogenic response
JOURNAL   Patent: JP 2002509721-A 6233 02-APR-2002;
          RIBOZYME PHARMACEUTICALS INC
COMMENT    OS Homo sapiens (human)
          PN JP 2002509721-A/6233
          PF 02-APR-2002
          PP 24-MAR-1999 JP 2000541291
          PR 27-MAR-1998 US 60/079678
          PI PAMELA A PAVCO,ELISABETH ROBERTS,THALE JARVIS,CLAIRE COESHOTT,
          PI JAMES A MCSWIGGEN
          PC C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
          A61P29/00,
          PC A61P35/00,A61P43/00,C12N5/10,C12N9/00//A61K35/76,C12N15/00, PC
          C12N5/00
          CC Method and reagent for treating diseases or conditions CC
          concerning molecule
          CC participating in vasculogenic response
          FT Key Location/Qualifiers
          FT source 1..17
          /organism="Homo sapiens (human)"
          /db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGA 691
Db 16 AGAACTGATTATGA 1

RESULT 62
BD255579/c
LOCUS     BD255579
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255579

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VERSION BD255579.1 GI:33065349
KEYWORDS JP 2002541795-A/3372.
SOURCE unclassified
ORGANISM unclassified

REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3372 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3372
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY source
FT 1.17
Location/Qualifiers
/organism='Eukaryote'.

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Location/Qualifiers
/organism='Eukaryote'.

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Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAAGTACAAAGA 476
Db 17 GAAGAAATACAAAGA 2

RESULT 63
BD255582/c
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255582
VERSION BD255582.1 GI:33065352
KEYWORDS JP 2002541795-A/3375.
SOURCE unclassified
ORGANISM unclassified

REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3375 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3375
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY source
FT 1.17
Location/Qualifiers
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Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAAGTACAAAGA 476
Db 17 GAAGAAATACAAAGA 2

RESULT 63
BD255582/c
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255582
VERSION BD255582.1 GI:33065352
KEYWORDS JP 2002541795-A/3375.
SOURCE unclassified
ORGANISM unclassified

REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3375 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3375
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY source
FT 1.17
Location/Qualifiers
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Query Match 1.6%; Score 14.4; DB 1; Length 17;
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Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAA 473
Db 16 AATGAAGAAATACAA 1

RESULT 64
BD257636
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD257636
VERSION BD257636.1 GI:33067406
KEYWORDS JP 2002541795-A/5429.
SOURCE unclassified
ORGANISM unclassified

REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 5429 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/5429
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
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Location/Qualifiers
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Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAA 473
Db 16 AATGAAGAAATACAA 1

RESULT 65
I23680/c
LOCUS 17 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 102 from patent US 5536638.
ACCESSION I23680
VERSION I23680.1 GI:1603550
KEYWORDS
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SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Rossau,R. and Van Heuverswyn,H.  
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of Neisseria gonorrhoeae  
JOURNAL Patent: US 5536638-A 102 16-JUL-1996;  
FEATURES Location/Qualifiers  
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Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGGTG 82  
DB 16 GCGGACGAAGGACGTG 1

RESULT 66  
LOCUS 123682/c 17 bp DNA linear PAT 07-OCT-1996  
DEFINITION Sequence 104 from patent US 5536638.  
ACCESSION 123682  
VERSION 123682.1 GI:1603552  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Rossau,R. and Van Heuverswyn,H.  
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of Neisseria gonorrhoeae  
JOURNAL Patent: US 5536638-A 104 16-JUL-1996;  
FEATURES Location/Qualifiers  
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Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGGTG 82  
DB 16 GCGGACGAAGGACGTG 1

RESULT 67  
LOCUS 123682/c 17 bp DNA linear PAT 18-DEC-2003  
DEFINITION Sequence 102 from patent US 6656689.  
ACCESSION AR433547  
VERSION AR433547.1 GI:40196383  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Rossau,R. and Van Heuverswyn,H.  
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of non-viral microorganisms  
JOURNAL Patent: US 6656689-A 102 02-DEC-2003;  
FEATURES Location/Qualifiers  
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Best Local Similarity 93.8%; Pred. No. 72;  
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QY 67 GCGGACGAAGCGGTG 82  
DB 16 GCGGACGAAGGACGTG 1

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGGTG 82  
DB 16 GCGGACGAAGGACGTG 1

RESULT 68  
LOCUS AR433549/c 17 bp DNA linear PAT 18-DEC-2003  
DEFINITION Sequence 104 from patent US 6656689.  
ACCESSION AR433549  
VERSION AR433549.1 GI:40196385  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Rossau,R. and Van Heuverswyn,H.  
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of non-viral microorganisms  
JOURNAL Patent: US 6656689-A 104 02-DEC-2003;  
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Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 72;  
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QY 67 GCGGACGAAGCGGTG 82  
DB 16 GCGGACGAAGGACGTG 1

RESULT 69  
LOCUS AX216792/c 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 2234 from Patent WO0159103.  
ACCESSION AX216792  
VERSION AX216792.1 GI:15526853  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Blatt,L., Mcswiggen,J. and Chowrira,B.M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression  
JOURNAL Patent: WO 0159103-A 2234 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ; McSwiggen, James (US) ; Chowrira, Bharat M. (US)  
FEATURES Location/Qualifiers  
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Best Local Similarity 93.8%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872  
DB 17 TTAAGAAGATCCAAAT 2

RESULT 70  
LOCUS AX216884 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 2326 from Patent WO0159103.

ACCESSION AX216884  
VERSION AX216884.1 GI:15526945  
KEYWORDS  
SOURCE  
ORGANISM  
synthetic construct  
synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B. M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression  
JOURNAL Patent: WO 0159103-A 2326 16-AUG-2001;  
RIBOSYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
McSwiggen, James (US); Chowrira, Bharat M. (US)  
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Best Local Similarity 93.8%; Pred. No. 72;  
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QY 822 AATAAAACCTGTAT 837  
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Db 1 AATAAAACCTGTAT 16  
RESULT 71  
AX701183/c  
LOCUS AX701183 17 bp DNA linear PAT 03-APR-2003  
DEFINITION Sequence 19 from Patent WO03012097.  
ACCESSION AX701183  
VERSION AX701183.1 GI:29536953  
KEYWORDS  
SOURCE  
ORGANISM  
synthetic construct  
synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Price, G. B. and Zannis-Hadjopoulos, M.  
TITLE Methods of inhibiting dna replication  
JOURNAL Patent: WO 03012097-A 19 13-FEB-2003;  
Price, Gerald B. (CA); Zannis-Hadjopoulos, Maria (CA)  
FEATURES  
source  
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QY 453 GTGGAATGAAGAAAG 468  
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Db 16 GTGGAGATGAAGAAAG 1  
RESULT 72  
AX706656/c  
LOCUS AX706656 17 bp DNA linear PAT 04-APR-2003  
DEFINITION Sequence 353 from Patent WO03013534.  
ACCESSION AX706656  
VERSION AX706656.1 GI:29563079  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Heinrich, G. and Kerb, R.

TITLE Methods for the treatment of cancer with irinotecan based on CYP3A5  
JOURNAL Patent: WO 03013534-A 353 20-FEB-2003;  
Epidaurus Biotechnologie AG (DE)  
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Best Local Similarity 93.8%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 321 GCAATGTGACTGCTGA 336  
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Db 16 GCAATGTGACTGCTGA 1  
RESULT 73  
AX706657  
LOCUS AX706657 17 bp DNA linear PAT 04-APR-2003  
DEFINITION Sequence 354 from Patent WO03013534.  
ACCESSION AX706657  
VERSION AX706657.1 GI:29563080  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Heinrich, G. and Kerb, R.  
TITLE Methods for the treatment of cancer with irinotecan based on CYP3A5  
JOURNAL Patent: WO 03013534-A 354 20-FEB-2003;  
Epidaurus Biotechnologie AG (DE)  
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Best Local Similarity 93.8%; Pred. No. 72;  
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QY 321 GCAATGTGACTGCTGA 336  
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Db 2 GCAATGTGACTGCTGA 17  
RESULT 74  
AX707586/c  
LOCUS AX707586 17 bp DNA linear PAT 04-APR-2003  
DEFINITION Sequence 353 from Patent WO03013536.  
ACCESSION AX707586  
VERSION AX707586.1 GI:29563759  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Heinrich, G. and Kerb, R.  
TITLE Methods for treatment of cancer using irinotecan based on UGT1A1  
JOURNAL Patent: WO 03013536-A 353 20-FEB-2003;  
Epidaurus Biotechnologie AG (DE)  
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Db 16 GCAATGTGACTGCTGA 1

RESULT 75
AX707587
LOCUS AX707587 17 bp DNA linear PAT 04-APR-2003
DEFINITION Sequence 354 from Patent WO03013536.
ACCESSION AX707587
VERSION AX707587.1 GI:29563760
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
AUTHORS Heinrich, G. and Kerb, R.
TITLE Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL Patent: WO 03013536-A 354 20-FEB-2003;
Epidaurus Biotechnologie AG (DE)
FEATURES
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Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
Db 2 GCAATGTGACTGCTGA 17

RESULT 76
AX731809
LOCUS AX731809 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 3443 from Patent WO03025175.
ACCESSION AX731809
VERSION AX731809.1 GI:30511152
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
AUTHORS Telerman, A., Anson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 3443 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
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/mol_type="unassigned DNA"
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Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
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QY 620 ATCTTAAAGTGTAAT 635
Db 2 ATCTTAAAGTGTAAT 17

RESULT 77
AX733720
LOCUS AX733720 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 5354 from Patent WO03025175.
ACCESSION AX733720
VERSION AX733720.1 GI:30513063
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
AUTHORS Telerman, A., Anson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5354 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
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Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 261 ATCCTCTATCCAGAA 276
Db 2 ATCCTATATCCAGAA 17

RESULT 79
AX761994
LOCUS AX761994 17 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 5315 from Patent WO03040369.
ACCESSION AX761994
VERSION AX761994.1 GI:32256610
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

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LOCUS AX733720 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 5354 from Patent WO03025175.
ACCESSION AX733720
VERSION AX733720.1 GI:30513063
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
AUTHORS Telerman, A., Anson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5354 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGA 391
Db 1 GATCTCACTCTCAGGA 16

RESULT 78
AX735175
LOCUS AX735175 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 765 from Patent WO03025177.
ACCESSION AX735175
VERSION AX735175.1 GI:30514452
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
AUTHORS Telerman, A., Anson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 765 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 261 ATCCTCTATCCAGAA 276
Db 2 ATCCTATATCCAGAA 17

RESULT 79
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LOCUS AX761994 17 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 5315 from Patent WO03040369.
ACCESSION AX761994
VERSION AX761994.1 GI:32256610
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1  
Teleman, A., Anson, R. and Tuijinder, M.  
Sequences involved in tumoral suppression, tumoral reversion, apoptosis and/or viral resistance phenomena and their use as medicines  
Patent: WO 03040369-A 5315 15-MAY-2003;  
Molecular Engines Laboratories (FR)  
Location/Qualifiers  
1. .17  
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Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAAT 635  
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Db 2 ATCTTAAAGTGTAT 17

RESULT 80  
CQ784352/c  
LOCUS  
DEFINITION Sequence 8 from Patent WO2004016317.  
ACCESSION CQ784352  
VERSION CQ784352.1 GI:45538840  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
Touw, I.P., Delwel, H.R., Lowenberg, B. and Valk, P.J.  
Use of murine genomic regions identified to be involved in tumor development for the development of anti-cancer drugs and diagnosis of cancer  
Patent: WO 2004016317-A 8 26-FEB-2004;  
Erasmus University Medical Center Rotterdam (NL)  
Location/Qualifiers  
1. .18  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Primer pLTR3"

Query Match 1.6%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 76;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 380 TCACTCTCAGGAGACC 395  
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Db 16 TCACTCTCAGGAGACC 1

RESULT 81  
AR046169  
LOCUS  
DEFINITION Sequence 962 from patent US 5817796.  
ACCESSION AR046169  
VERSION AR046169.1 GI:5967634  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.  
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues  
JOURNAL Patent: US 5817796-A 962 06-OCT-1998;  
FEATURES Location/Qualifiers  
1. .17

Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722  
|||||  
Db 3 ATAGTTTTTATAAAA 16

RESULT 82  
AR046171  
LOCUS  
DEFINITION Sequence 964 from patent US 5817796.  
ACCESSION AR046171  
VERSION AR046171.1 GI:5967636  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.  
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues  
JOURNAL Patent: US 5817796-A 964 06-OCT-1998;  
FEATURES Location/Qualifiers  
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/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722  
|||||  
Db 1 ATAGTTTTTATAAAA 14

RESULT 84  
IS3221  
LOCUS  
DEFINITION Sequence 962 from patent US 5817796-A 964 06-OCT-1998;  
FEATURES Location/Qualifiers  
1. .17

/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722  
|||||  
Db 3 ATAGTTTTTATAAAA 16

RESULT 82  
AR046171  
LOCUS  
DEFINITION Sequence 964 from patent US 5817796.  
ACCESSION AR046171  
VERSION AR046171.1 GI:5967636  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.  
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues  
JOURNAL Patent: US 5817796-A 964 06-OCT-1998;  
FEATURES Location/Qualifiers  
1. .17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722  
|||||  
Db 2 ATAGTTTTTATAAAA 15

RESULT 83  
AR046173  
LOCUS  
DEFINITION Sequence 966 from patent US 5817796.  
ACCESSION AR046173  
VERSION AR046173.1 GI:5967638  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.  
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues  
JOURNAL Patent: US 5817796-A 966 06-OCT-1998;  
FEATURES Location/Qualifiers  
1. .17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722  
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Db 1 ATAGTTTTTATAAAA 14

RESULT 84  
IS3221  
LOCUS  
DEFINITION Sequence 962 from patent US 5817796-A 964 06-OCT-1998;  
FEATURES Location/Qualifiers  
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VERSION 153221.1 GI:2474424
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 962 08-JUL-1997;
FEATURES
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    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity 1.6%; Score 14; DB 1; Length 17;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 3 ATAGTTTATAAAA 16
|||||
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RESULT 85
153223
LOCUS 153223 17 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 964 from patent US 5646042.
ACCESSION 153223
VERSION 153223.1 GI:2474426
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
AUTHORS
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 964 08-JUL-1997;
FEATURES
    source
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    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity 1.6%; Score 14; DB 1; Length 17;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 3 ATAGTTTATAAAA 16
|||||
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RESULT 86
153225
LOCUS 153225 17 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 966 from patent US 5646042.
ACCESSION 153225
VERSION 153225.1 GI:2474428
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
AUTHORS
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 966 08-JUL-1997;
FEATURES
    source
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    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity 1.6%; Score 14; DB 1; Length 17;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 2 ATAGTTTATAAAA 15
|||||
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RESULT 87
AX215042/c
LOCUS AX215042 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 484 from Patent WO0159103.
ACCESSION AX215042
VERSION AX215042.1 GI:15525085
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
Blatt,L., McSwiggen,J. and Chowrira,B.M.
AUTHORS Method and reagent for the modulation and diagnosis of cd20 and
TITLE nogo gene expression
JOURNAL Patent: WO 0159103-A 484 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
MCSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES
    source
    1..17
    /organism="synthetic construct"
    /mol_type="unassigned RNA"
    /db_xref="taxon:32630"
    /note="Nucleic Acid"

Query Match
Best Local Similarity 1.6%; Score 14; DB 1; Length 17;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 674 TGAGAAACTGATT 687
Db 14 TGAGAAACTGATT 1
|||||
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RESULT 88
AX215907/c
LOCUS AX215907 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 1349 from Patent WO0159103.
ACCESSION AX215907
VERSION AX215907.1 GI:15525950
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
Blatt,L., McSwiggen,J. and Chowrira,B.M.
AUTHORS Method and reagent for the modulation and diagnosis of cd20 and
TITLE nogo gene expression
JOURNAL Patent: WO 0159103-A 1349 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
MCSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES
    source
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    /mol_type="unassigned RNA"
    /db_xref="taxon:32630"
    /note="Nucleic Acid"

Query Match
Best Local Similarity 1.6%; Score 14; DB 1; Length 17;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 674 TGAGAAACTGATT 687
Db 17 TGAGAAACTGATT 4
|||||
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RESULT 89
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AX216554/c  AX216554      17 bp  RNA      linear      PAT 07-SEP-2001
LOCUS        Sequence 1996 from Patent WO0159103.
ACCESSION    AX216554
VERSION      AX216554.1  GI:15526615
KEYWORDS     synthetic construct
SOURCE       other sequences; artificial sequences.
ORGANISM     1
REFERENCE    1
AUTHORS      Blatt, L., Mcswiggen, J. and Chowrira, B.M.
TITLE        Method and reagent for the modulation and diagnosis of cd20 and
JOURNAL      nogo gene expression
RIBOZYME     Patent: WO 0159103-A 1996 16-AUG-2001;
PHARMACEUTICALS INC. (US) ; Blatt, Lawrence (US) ;
McSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES     Location/Qualifiers
source       1..17
              /organism="synthetic construct"
              /mol_type="unassigned RNA"
              /db_xref="taxon:32630"
              /note="Nucleic Acid"

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 674 TGAGAAACTGATTT 687
Db 16 TGAGAAACTGATTT 3

RESULT 90
LOCUS        BD257133      17 bp  DNA      linear      PAT 17-JUL-2003
DEFINITION   Regulation of repressor genes using nucleic acid molecules.
ACCESSION    BD257133
VERSION      BD257133.1  GI:33066903
KEYWORDS     JP 2002541795-A/4926.
SOURCE       unidentified
ORGANISM     unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.
TITLE        Regulation of repressor genes using nucleic acid molecules
JOURNAL      Patent: JP 2002541795-A 4926 10-DEC-2002;
RIBOZYME     RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Eukaryote
              PN JP 2002541795-A/4926
              PD 10-DEC-2002
              PF 11-APR-2000 JP 2000611654
              PR 12-APR-1999 US 60/129390
              PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
              C12N15/09, A61K38/00, A61K48/00, A61P43/00, C12N5/10, PC
              C12P21/02,
              PC
              C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
              C12R1:91),
              PC
              (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
              PC A61K37/02,
              PC
              (C12N5/00, C12R1:91)
              CC Regulation of repressor genes using nucleic acid molecules FH
              Key Location/Qualifiers
              FT source 1..17
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Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 777 ATGGGTATTAAACTTGT 793
Db 1 ATGGGTATTAAACTGT 17

RESULT 92
LOCUS        BD257135      17 bp  DNA      linear      PAT 17-JUL-2003
DEFINITION   Regulation of repressor genes using nucleic acid molecules.
ACCESSION    BD257135
VERSION      BD257135.1  GI:33066905
KEYWORDS     JP 2002541795-A/4928.
SOURCE       unidentified
ORGANISM     unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.
TITLE        Regulation of repressor genes using nucleic acid molecules
JOURNAL      Patent: JP 2002541795-A 4928 10-DEC-2002;
RIBOZYME     RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Eukaryote
              PN JP 2002541795-A/4928
              PD 10-DEC-2002

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Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 776 GATGGGTATTAACTTG 792
Db 1 GATGGGTATTAAACATG 17

RESULT 91
LOCUS        BD257134      17 bp  DNA      linear      PAT 17-JUL-2003
DEFINITION   Regulation of repressor genes using nucleic acid molecules.
ACCESSION    BD257134
VERSION      BD257134.1  GI:33066904
KEYWORDS     JP 2002541795-A/4927.
SOURCE       unidentified
ORGANISM     unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.
TITLE        Regulation of repressor genes using nucleic acid molecules
JOURNAL      Patent: JP 2002541795-A 4927 10-DEC-2002;
RIBOZYME     RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Eukaryote
              PN JP 2002541795-A/4927
              PD 10-DEC-2002
              PF 11-APR-2000 JP 2000611654
              PR 12-APR-1999 US 60/129390
              PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
              C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC
              C12P21/02,
              PC
              C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
              C12R1:91),
              PC
              (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
              PC A61K37/02,
              PC
              (C12N5/00, C12R1:91)
              CC Regulation of repressor genes using nucleic acid molecules FH
              Key Location/Qualifiers
              FT source 1..17
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              /db_xref="taxon:32644"

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 777 ATGGGTATTAAACTTGT 793
Db 1 ATGGGTATTAAACATGT 17

RESULT 92
LOCUS        BD257135      17 bp  DNA      linear      PAT 17-JUL-2003
DEFINITION   Regulation of repressor genes using nucleic acid molecules.
ACCESSION    BD257135
VERSION      BD257135.1  GI:33066905
KEYWORDS     JP 2002541795-A/4928.
SOURCE       unidentified
ORGANISM     unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.
TITLE        Regulation of repressor genes using nucleic acid molecules
JOURNAL      Patent: JP 2002541795-A 4928 10-DEC-2002;
RIBOZYME     RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Eukaryote
              PN JP 2002541795-A/4928
              PD 10-DEC-2002

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PF 11-APR-2000 JP 2000611654  
PI 12-APR-1999 US 60/129390  
LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC  
C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC  
C12P21/02,  
PC  
C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1/91), (C12P21/02, PC  
C12R1/91),  
PC (C12P21/02, C12R1/91), (C12P21/02, C12R1/91), C12N15/00, C12N5/00,  
PC A61K37/02,  
PC (C12N5/00, C12R1/91)  
CC Regulation of repressor genes using nucleic acid molecules PH  
Key source Location/Qualifiers  
1. .17  
FT source /organism="Eukaryote".  
1. .17  
FT Location/Qualifiers  
1. .17  
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Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 778 TGGGTATTAACTGTGTC 794  
|||||  
Db 1 TGGGTTTAAACATGTC 17

RESULT 93  
CQ624220  
LOCUS Homo sapiens (human)  
DEFINITION Sequence 8960 from Patent WO0192524.  
ACCESSION CQ624220  
VERSION CQ624220.1 GI:41674438  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 8960 06-DEC-2001;  
Aeomica, Inc. (US)

FEATURES  
source  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 183 CTGAAGCCCGACATGGA 199  
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Db 1 CTGAAGCCCGACATGGA 17

RESULT 94  
I06874  
LOCUS Homo sapiens  
DEFINITION Sequence 5 from Patent EP 0340805.  
ACCESSION I06874  
VERSION I06874.1 GI:589851  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 17)  
Unclassified.

AUTHORS Hallowell, R.A. and Mullenbach, G.T.  
TITLE Superoxide dismutase and expression in microorganisms  
JOURNAL Patent: EP 0340805-A1 5 08-NOV-1989;  
FEATURES  
Location/Qualifiers  
1. .17  
source /organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 392 GACCAATGCATCATTCG 408  
|||||  
Db 17 GACCAATGCATCATTCG 1

RESULT 95  
AR190462/c  
LOCUS AR190462  
DEFINITION Sequence 5950 from patent US 6346398.  
ACCESSION AR190462  
VERSION AR190462.1 GI:20236427  
KEYWORDS  
SOURCE  
ORGANISM  
Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6346398-A 5950 12-FEB-2002;  
FEATURES  
Location/Qualifiers  
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source /organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGCAGTCTGAGGTCCT 559  
|||||  
Db 17 TGCAGTCTGAGGTCCT 1

RESULT 96  
AR325385/c  
LOCUS AR325385  
DEFINITION Sequence 2787 from patent US 6566127.  
ACCESSION AR325385  
VERSION AR325385.1 GI:33711193  
KEYWORDS  
SOURCE  
ORGANISM  
Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 2787 20-MAY-2003;  
FEATURES  
Location/Qualifiers  
1. .17  
source /organism="unknown"  
/mol\_type="unassigned RNA"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGCAGTCTGAGGTCCT 559  
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Db 17 TGCAGTCTGAGGTCCT 1

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RESULT 97
AR327698/c
LOCUS AR327698 17 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 5100 from patent US 6566127.
ACCESSION AR327698
VERSION AR327698.1 GI:33713506
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 5100 20-MAY-2003;
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        Location/Qualifiers
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                /organism="unknown"
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Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 239 ACCAGTGCAGGTCCTCA 255
Db 17 ATCAGTGCAGCTCTCA 1

RESULT 98
AR329394
LOCUS AR329394 17 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 6796 from patent US 6566127.
ACCESSION AR329394
VERSION AR329394.1 GI:33715202
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 6796 20-MAY-2003;
FEATURES
    source
        Location/Qualifiers
            1..17
                /organism="unknown"
                /mol_type="unassigned RNA"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 239 ACCAGTGCAGGTCCTCA 255
Db 17 ATCAGTGCAGCTCTCA 1

RESULT 99
AR465283
LOCUS AR465283 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 8960 from patent US 6686188.
ACCESSION AR465283
VERSION AR465283.1 GI:42700340
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.

TITLE Polynucleotide encoding a human myosin-like polypeptide expressed
predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 8960 03-FEB-2004;
FEATURES
    source
        Location/Qualifiers
            1..17
                /organism="unknown"
                /mol_type="genomic DNA"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 183 CTGAAG3CCTGCATGGA 199
Db 1 CTGAAGCCGACATGGA 17

RESULT 100
AX081872/c
LOCUS AX081872 17 bp DNA linear PAT 27-FEB-2001
DEFINITION Sequence 116 from Patent WO0109183.
ACCESSION AX081872
VERSION AX081872.1 GI:13170679
KEYWORDS synthetic construct
SOURCE other sequences; artificial sequences.
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Brinkmann,U., Hoffmeyer,S., Eichelbaum,M. and Roots,I.
TITLE Polymorphisms in the human mdr-1 gene and their use in diagnostic
and therapeutic applications
JOURNAL Patent: WO 0109183-A 116 08-FEB-2001;
FEATURES
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                /note="synthetic"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335
Db 17 GTGCAATGTAAGTCTG 1

RESULT 101
AX215655/c
LOCUS AX215655 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 1097 from Patent WO0159103.
ACCESSION AX215655
VERSION AX215655.1 GI:15525698
KEYWORDS synthetic construct
SOURCE other sequences; artificial sequences.
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
nogo gene expression
JOURNAL Patent: WO 0159103-A 1097 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
McSwiggen, James (US); Chowrira, Bharat M. (US)
FEATURES
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                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
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Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 730 AAAATGCTGTTTCAAT 746  
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Db 17 AAAATGTTTGCAT 1

RESULT 102  
LOCUS AX265751 17 bp DNA linear PAT 26-OCT-2001  
DEFINITION Sequence 3142 from Patent WO0173002.  
ACCESSION AX265751  
VERSION AX265751.1 GI:16514550  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1  
AUTHORS Kniec,E.B., Gamper,H.B. and Rice,M.C.  
TITLE Targeted chromosomal genomic alterations with modified single stranded oligonucleotides  
JOURNAL Patent: WO 0173002-A 3142 04-OCT-2001;  
UNIVERSITY OF DELAWARE (US)  
FEATURES  
source Location/Qualifiers  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692  
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Db 1 AGATACTCAATTATGAT 17

RESULT 103  
LOCUS AX265752/c 17 bp DNA linear PAT 26-OCT-2001  
DEFINITION Sequence 3143 from Patent WO0173002.  
ACCESSION AX265752  
VERSION AX265752.1 GI:16514551  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1  
AUTHORS Kniec,E.B., Gamper,H.B. and Rice,M.C.  
TITLE Targeted chromosomal genomic alterations with modified single stranded oligonucleotides  
JOURNAL Patent: WO 0173002-A 3143 04-OCT-2001;  
UNIVERSITY OF DELAWARE (US)  
FEATURES  
source Location/Qualifiers  
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/db\_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692  
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Db 17 AGATACTCAATTATGAT 1

RESULT 104  
LOCUS AX691936 17 bp DNA linear PAT 31-MAR-2003.  
DEFINITION Sequence 4668 from Patent EP1281758.  
ACCESSION AX691936  
VERSION AX691936.1 GI:29414877  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1  
AUTHORS Shannon,M., Gu,Y. and Nguyen,C.T.  
TITLE Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and mdz12  
JOURNAL Patent: EP 1281758-A 4668 05-FEB-2003;  
Aeomica, Inc. (US)  
FEATURES  
source Location/Qualifiers  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 549 CTGAGGCCCTTAACTC 565  
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Db 1 CTGAGGCCCTCAGCTC 17

RESULT 105  
LOCUS AX782232/c 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Sequence 563 from Patent WO03050284.  
ACCESSION AX782232  
VERSION AX782232.1 GI:32950081  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1  
AUTHORS Guo,J.  
TITLE Human prostate cancer candidate protein 1  
JOURNAL Patent: WO 03050284-A 563 19-JUN-2003;  
Amersham Biosciences (SV) Corp. (US)  
FEATURES  
source Location/Qualifiers  
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/mol\_type="unassigned DNA"  
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Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 635 TTCTGTGACTTTTTCAG 651  
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Db 17 TTCTGAGACTTTTTCAG 1

RESULT 106  
LOCUS CQ821404 15 bp DNA linear PAT 14-JUN-2004  
DEFINITION Sequence 10 from Patent WO2004038019.  
ACCESSION CQ821404  
VERSION CQ821404.1 GI:48716053  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 81;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692  
|||||  
Db 17 AGATACTCAATTATGAT 1

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

PR	13-WAR-2001 JP 01P	070940
PI	FUMTHIKO YOKOYA, TOMOHISA OKUTSU, MAIKO MORI, YOSHIYUKI PI	
PI	TAKAHARA, HISAO FUKUDA,	
PC	HIROYUKI ABURATANI, ICHIRO SONAKA	
PC	CL2N15/09 CL201/68, G01N33/15, G01N33/50, G01N37/00 CC	
PH	Description of Artificial Sequence: primer	
FT	Key	Location/Qualifiers
FT	source	1. .16
FT	source	/organism='Artificial Sequence'
FEATURES	source	Location/Qualifiers
	1. .16	
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	/mol_type="genomic DNA"	
	/db_xref="taxon:32630"	
Query Match	1.5%; Score 13.4; DB 1; Length 16;	
Best Local Similarity	93.3%; Pred. No. 82;	
Matches 14;	Conservative 0; Mismatches 1; Indels 0; Gaps 0;	
QY	310 TGGAGACTTGGGCAA 324	
Db	15 TGGACACTTGGGCAA 1	
RESULT 109		
AR328540/c		
LOCUS	AR328540	16 bp RNA
DEFINITION	Sequence 5942 from patent US 6566127.	linear
ACCESSION	AR328540	
VERSION	AR328540.1	GI:33714348
KEYWORDS		
SOURCE	Unknown.	
ORGANISM	Unknown.	
REFERENCE	Unclassified.	
AUTHORS	1 (bases 1 to 16)	
TITLE	Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.	
JOURNAL	Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor	
FEATURES	Patent: US 6566127-A 5942 20-MAY-2003;	
source	Location/Qualifiers	
	1. .16	
	/organism="unknown"	
	/mol_type="unassigned RNA"	
Query Match	1.5%; Score 13.4; DB 1; Length 16;	
Best Local Similarity	93.3%; Pred. No. 82;	
Matches 14;	Conservative 0; Mismatches 1; Indels 0; Gaps 0;	
QY	241 CAGTCAGGTCCTCA 255	
Db	16 CAGTCAGGTCCTCA 2	
RESULT 110		
AR600643		
LOCUS	AR600643	16 bp DNA
DEFINITION	Sequence 2 from Patent WO02092853.	linear
ACCESSION	AR600643	
VERSION	AR600643.1	GI:28400597
KEYWORDS		
ORGANISM	Bacillus cereus	
SOURCE	Bacillus cereus	
REFERENCE	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus; Bacillus cereus group.	
AUTHORS	1	
TITLE	Breen, A.W. and Singleton, F.L.	
JOURNAL	Detection of spore forming bacteria	
FEATURES	Patent: WO 02092853-A 21-NOV-2002;	
source	HERCULES INCORPORATED (US)	
	Location/Qualifiers	
	1. .16	
	/organism="Bacillus cereus"	
	/mol_type="unassigned DNA"	

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/db_xref="taxon:1396"

Query Match      1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 82;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 429 AAAAAAGCAGTACT 443
Db 2 AAAAAAGCAGTACT 16
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|||||

RESULT 111
BD263834
LOCUS
DEFINITION
  BD263834 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263834
VERSION
  BD263834.1 GI:33073602
KEYWORDS
  JP 2002542805-A/56.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 56 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/56
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
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  /mol_type="genomic RNA"
  /db_xref="taxon:32630"

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Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 354 ATGTGTCCTATTGA 366
Db 1 ATGTGTCCTATTGA 13
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RESULT 113
BD263838
LOCUS
DEFINITION
  BD263838 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263838
VERSION
  BD263838.1 GI:33073606
KEYWORDS
  JP 2002542805-A/60.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 60 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/60
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
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Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 245 GCAGGTCCTCACT 257
Db 1 GCAGGTCCTCACT 13
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|||||

RESULT 112
BD263836
LOCUS
DEFINITION
  BD263836 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263836
VERSION
  BD263836.1 GI:33073604
KEYWORDS
  JP 2002542805-A/58.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 58 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/58
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
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Query Match      1.5%; Score 13; DB 1; Length 13;
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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 418 GGTGTCCTCACTGA 430
Db 1 GGTGTCCTCACTGA 430
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Db          1 GGTGGTCCATGAA 13

RESULT 114
BD263840
LOCUS      13 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION Adeno-associated virus-delivered ribozyme compositions and methods
of use.
ACCESSION  BD263840
VERSION     BD263840.1 GI:33073608
KEYWORDS   JP 2002542805-A/62.
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1 (bases 1 to 13)
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: JP 2002542805-A 62 17-DEC-2002;
COMMENT    UNIVERSITY OF FLORIDA
OS         Artificial Sequence
PN         JP 2002542805-A/62
PD         17-DEC-2002
PF         28-APR-2000 JP 2000615402
PI         30-APR-1999 US 60/131942
PR         ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
,CHRISTIAN TESCHENDORF,
PI         CORINNA BURGER
PC         C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
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            Location/Qualifiers
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            /db_xref="taxon:32630"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      488 GGAAGTCGTTGG 500
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        1 GGAAGTCGTTGG 13

RESULT 115
AX048320
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 56 from Patent WO0066780.
ACCESSION  AX048320
VERSION     AX048320.1 GI:11877085
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 56 09-NOV-2000;
COMMENT    University of Florida (US)
FEATURES   Location/Qualifiers
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            /note="SYNTHETIC PEPTIDE"

Db          1 GGTGGTCCATGAA 13

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Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      245 GCAGGTCCTCACT 257
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        1 GCAGGTCCTCACT 13

RESULT 116
AX048322
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 58 from Patent WO0066780.
ACCESSION  AX048322
VERSION     AX048322.1 GI:11877087
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 58 09-NOV-2000;
COMMENT    University of Florida (US)
FEATURES   Location/Qualifiers
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Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      354 ATGTGTCTATTGA 366
        |||||
        1 ATGTGTCTATTGA 13

RESULT 117
AX048324
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 60 from Patent WO0066780.
ACCESSION  AX048324
VERSION     AX048324.1 GI:11877089
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 60 09-NOV-2000;
COMMENT    University of Florida (US)
FEATURES   Location/Qualifiers
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Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      418 GGTGGTCCATGAA 430
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        1 GGTGGTCCATGAA 13

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RESULT 118  
AX048326  
LOCUS AX048326 13 bp RNA linear PAT 15-DEC-2000  
DEFINITION Sequence 62 from Patent WO0066780.  
ACCESSION AX048326  
VERSION AX048326.1 GI:11877091  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and Burger,C.  
TITLE Adeno-associated virus-delivered ribozyme compositions and methods of use  
JOURNAL Patent: WO 0066780-A 62 09-NOV-2000;  
UNIVERSITY of Florida (US)  
FEATURES  
source  
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/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="SYNTHETIC PEPTIDE"  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 73;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 488 GGAAGTCGTTGG 500  
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Db 1 GGAAGTCGTTGG 13  
RESULT 119  
CQ786469/c  
LOCUS CQ786469 16 bp DNA linear PAT 24-MAR-2004  
DEFINITION Sequence 31 from Patent WO2004020611.  
ACCESSION CQ786469  
VERSION CQ786469.1 GI:45721541  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Jonniaux,J.L., Valepyn,E., Corbisier,A.M. and Dauvrin,T.  
TITLE Myrothecium sp. Transformation and expression system  
JOURNAL Patent: WO 2004020611-A 31 11-MAR-2004;  
Puratos Naamloze Vennootschap (BE)  
FEATURES  
source  
1. .16  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="AMY5 primer"  
Query Match 1.5%; Score 13; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 109 GCAGGGCATCATC 121  
|||||  
Db 14 GCAGGGCATCATC 2  
RESULT 120  
AR329602  
LOCUS AR329602 16 bp RNA linear PAT 17-AUG-2003  
DEFINITION Sequence 7004 from patent US 6566127.  
ACCESSION AR329602  
VERSION AR329602.1 GI:33715410  
KEYWORDS

SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 7004 20-MAY-2003;  
FEATURES  
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/mol\_type="unassigned RNA"  
Query Match 1.5%; Score 13; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 421 GGTCCATGA AAAA 433  
|||||  
Db 4 GGTCCATGA AAAA 16  
RESULT 121  
A10669  
LOCUS A10669 16 bp DNA linear PAT 02-DEC-1993  
DEFINITION Oligonucleotide (H6).  
ACCESSION A10669  
VERSION A10669.1 GI:490795  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.  
TITLE Process for production of gamma-interferon  
JOURNAL Patent: EP 0176916-A 54 09-APR-1986;  
FUJISAWA PHARMACEUTICAL CO., LTD  
FEATURES  
source  
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/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 691 ATCACTTGGAGATTT 706  
|||||  
Db 1 ATCACTTGGATGAGTT 16  
RESULT 122  
CQ821403  
LOCUS CQ821403 16 bp DNA linear PAT 14-JUN-2004  
DEFINITION Sequence 9 from Patent WO2004038019.  
ACCESSION CQ821403  
VERSION CQ821403.1 GI:48716052  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Beeson,D., Wood,M. and Abdelgany,A.  
TITLE Dnzyme cleaving mutant polynucleotides  
JOURNAL Patent: WO 2004038019-A 9 06-MAY-2004;  
ISIS INNOVATION LIMITED (GB)  
FEATURES  
source  
1. .16  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 94 GGCGACGGCCCACTG 109  
| | | | | | | | | | | | | | | |  
Db 1 GGCGACGGCCCACTG 16

RESULT 123  
LOCUS AR328567/c 16 bp RNA linear PAT 17-AUG-2003  
DEFINITION Sequence 5969 from patent US 6566127.  
ACCESSION AR328567  
VERSION AR328567.1 GI:33714375  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 5969 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..16  
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/mol\_type="unassigned RNA"

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 638 TGTGACTTTTTCAGAG 653  
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Db 16 TGTGACTTTTTCAGT 1

RESULT 124  
LOCUS AR328701 16 bp RNA linear PAT 17-AUG-2003  
DEFINITION Sequence 6103 from patent US 6566127.  
ACCESSION AR328701  
VERSION AR328701.1 GI:33714509  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 6103 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..16  
/organism="unknown"  
/mol\_type="unassigned RNA"

Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 424 CCATGAAAAGCGCAT 439  
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Db 1 CCATGAAAATGCAAT 16

RESULT 125  
LOCUS AX040892 16 bp DNA linear PAT 23-NOV-2000  
DEFINITION Sequence 37 from Patent WO0065090.  
ACCESSION AX040892

VERSION AX040892.1 GI:11340514  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Lok, S. and Whitmore, T.E.  
TITLE The insulin receptor-related receptor gene sequence for diagnosis of human obesity and diabetic disorders  
JOURNAL Patent: WO 0065090-A 37 02-NOV-2000;  
ZymoGenetics, Inc. (US)

FEATURES Location/Qualifiers  
source 1..16  
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/db\_xref="taxon:32630"  
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Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 380 TCACTCTCAGGAGACC 395  
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Db 1 TTACTCTCAGGAGGCC 16

RESULT 126  
LOCUS CQ821410 14 bp DNA linear PAT 14-JUN-2004  
DEFINITION Sequence 16 from Patent WO2004038019.  
ACCESSION CQ821410  
VERSION CQ821410.1 GI:48716059  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Beeson, D., Wood, M. and Abdelgany, A.  
TITLE Dnzyme cleaving mutant polynucleotides  
JOURNAL Patent: WO 2004038019-A 16 06-MAY-2004;  
ISIS INNOVATION LIMITED (GB)

FEATURES Location/Qualifiers  
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Qy 437 GATGACTTGGGCAA 450  
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Db 1 GATGACTCGGCAA 14

RESULT 127  
LOCUS AX081113 14 bp DNA linear PAT 27-FEB-2001  
DEFINITION Sequence 13 from Patent WO0109385.  
ACCESSION AX081113  
VERSION AX081113.1 GI:13170025  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Lukhtanov, E.A., Podyminogin, M.A. and Hedgpeth, J.  
TITLE Attachment of oligonucleotides to solid supports through schiff base type linkages for capture and detection of nucleic acids  
JOURNAL Patent: WO 0109385-A 13 08-FEB-2001;

Qy 84 GCGTGCTGAAGGGC 97

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ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K.G., McSwiggen,J. and Stinchcomb,D.T.
TITLE IL-5 targeted ribozymes
JOURNAL Patent: US 5616488-A 148 01-APR-1997;
FEATURES
    source
        1..15
            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match
Best Local Similarity 1.4%; Score 12; DB 1; Length 15;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 730 AAAATGTCCTGTT 741
Db 1 AAAATGTCCTGTT 12

RESULT 133
LOCUS 180907/c 15 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 24 from patent US 5709997.
ACCESSION I80907
VERSION I80907.1 GI:3209197
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Marshall,R.L., Jou,C., Simons,J.N., Leary,T.P., Muerhoff,A.Scott.,
Desai,S.M. and Mushahwar,I.K.
TITLE Nucleic acid detection of hepatitis GB virus
JOURNAL Patent: US 5709997-A 24 20-JAN-1998;
FEATURES
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Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 90 TGAAGGCGGACG 101
Db 13 TGAAGGCGGACG 2

RESULT 134
AX377090
LOCUS 15 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 11 from Patent WO0212561.
ACCESSION AX377090
VERSION AX377090.1 GI:19573381
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Kazemi,A., Messer,C. and Tanguay,D.A.
TITLE Haplotypes of the orig1 gene
JOURNAL Patent: WO 0212561-A 11 14-FEB-2002;
Genaisance Pharmaceuticals, Inc. (US)
FEATURES
    source
        1..15
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match
Best Local Similarity 1.4%; Score 12; DB 1; Length 15;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 730 AAAATGTCCTGTT 741
Db 1 AAAATGTCCTGTT 12

Search completed: April 14, 2005, 16:42:55
Job time : 1 secs
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QY 611 AACACTGTAATCTT 624
Db 1 AACACTGKAATATT 14

RESULT 135
AX635353
LOCUS 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 2492 from Patent EP1260586.
ACCESSION AX635353
VERSION AX635353.1 GI:28470967
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A.,
Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related
genes
JOURNAL Patent: EP 1260586-A 2492 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES
    source
        1..15
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            /db_xref="taxon:32644"
Query Match
Best Local Similarity 1.4%; Score 12; DB 1; Length 15;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 730 AAAATGTCCTGTT 741
Db 1 AAAATGTCCTGTT 12

Search completed: April 14, 2005, 16:42:55
Job time : 1 secs
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XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX Example 15; Page 77; 107pp; English.  
 XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 691 ATCACTTGGAGATTGCTAT 710  
 DB 20 ATCACTTGGAGATTGCTAT 1  
 RESULT 55  
 ACC40943/C  
 ID ACC40943 standard; DNA; 20 BP.  
 XX AC ACC40943;  
 XX 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150497.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 PH modified\_base 1..20  
 FT /\*tag= a

FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylycytosine"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX Example 15; Page 77; 107pp; English.  
 XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 3 C; 1 G; 8 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 843 TTATTATGAGGCTATTAAAA 862  
 DB 20 TTATTATGAGGCTATTAAAA 1  
 RESULT 56  
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 ID ACC40883 standard; DNA; 20 BP.  
 XX AC ACC40883;  
 XX 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150437.  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150437.  
 FT

KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.

OS Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
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FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 methylcytosine"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX WO2003000707-A2.

PN 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human

XX superoxide dismutase 1, for modulating expression of the dismutase and

XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX Example 15; Page 76; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,  
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
 XX 1. The compound specifically hybridises with and inhibits the expression  
 XX of human superoxide dismutase 1 by hybridising with at least an 8-  
 XX nucleobase portion of the nucleic acid molecule encoding the active site  
 XX of the enzyme. The activity of compounds of the invention may be  
 XX described as neuroprotective, cytostatic and antiinflammatory. The  
 XX mechanism of action of compounds of the invention is antisense inhibition  
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 XX Compounds of the invention are useful for inhibiting the expression of  
 XX human superoxide dismutase 1 in human cells or tissues, and for treating  
 XX a disease or condition associated with this enzyme (antisense therapy),  
 XX especially amyotrophic lateral sclerosis, a disease or condition arising  
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 XX used in diagnostics, therapeutics and as a research reagent, e.g.  
 XX prophylactically to prevent or delay infection, inflammation or tumour  
 XX formation. Sequences given in records ACC40880-ACC40957 represent human  
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides

SQ Sequence 20 BP; 7 A; 6 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 GGTTCCTCGTTCAGTCTCG 33

Db 20 GGTTCCTCGTTCAGTCTCG 1

# RESULT 57

ID ACC40887/c  
 XX ACC40887 standard; DNA; 20 BP.

XX AC

XX ACC40887;

XX 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150441.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.

OS Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
 XX modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 methylcytosine"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX Claim 3; Page 76; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,  
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
 XX 1. The compound specifically hybridises with and inhibits the expression  
 XX of human superoxide dismutase 1 by hybridising with at least an 8-  
 XX nucleobase portion of the nucleic acid molecule encoding the active site  
 XX of the enzyme. The activity of compounds of the invention may be  
 XX described as neuroprotective, cytostatic and antiinflammatory. The  
 XX mechanism of action of compounds of the invention is antisense inhibition  
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 XX Compounds of the invention are useful for inhibiting the expression of  
 XX human superoxide dismutase 1 in human cells or tissues, and for treating  
 XX a disease or condition associated with this enzyme (antisense therapy),  
 XX especially amyotrophic lateral sclerosis, a disease or condition arising  
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 XX used in diagnostics, therapeutics and as a research reagent, e.g.  
 XX prophylactically to prevent or delay infection, inflammation or tumour  
 XX formation. Sequences given in records ACC40880-ACC40957 represent human  
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides

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XX  Sequence 20 BP; 3 A; 7 C; 7 G; 3 T; 0 U; 0 Other;
SQ  Query Match      2.3%; Score 20; DB 1; Length 20;
    Best Local Similarity 100.0%; Pred. No. 60;
    Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  38 CAGGACTCGGCTGGCCTTA 57
Db  20 CAGGACTCGGCTGGCCTTA 1

RESULT 58
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ID  ACC40896 standard; DNA; 20 BP.
XX  AC  ACC40896;
XX  AC  ACC40896;
DT  23-MAY-2003 (first entry)
XX  Human superoxide dismutase 1 antisense inhibitor # ISIS 150450.
DE  Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX  antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX  hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX  ss.
OS  Homo sapiens.
OS  Synthetic.
XX  Key      Location/Qualifiers
FH  modified_base 1..20
FT  /*tag= a
FT  /mod_base= OTHER
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FT  methylcytosine"
FT  modified_base 1..5
FT  /*tag= b
FT  /mod_base= OTHER
FT  /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT  modified_base 16..20
FT  /*tag= c
FT  /mod_base= OTHER
FT  /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX  WO2003000707-A2.
XX  03-JAN-2003.
XX  19-JUN-2002; 2002WO-US019664.
XX  21-JUN-2001; 2001US-00888360.
XX  (ISIS-) ISIS PHARM INC.
XX  Bennett FC, Dobie K;
XX  WPI; 2003-184032/18.
XX  Novel antisense compounds targeted to nucleic acids encoding human
XX  superoxide dismutase 1, for modulating expression of the dismutase and
XX  treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX  Claim 3; Page 76; 107pp; English.
XX  The invention relates to a compound of 8-50 nucleobases in length,
XX  targeted to a nucleic acid molecule encoding human superoxide dismutase
XX  1. The compound specifically hybridises with and inhibits the expression
XX  of human superoxide dismutase 1 by hybridising with at least an 8-
XX  nucleobase portion of the nucleic acid molecule encoding the active site
XX  of the enzyme. The activity of compounds of the invention may be
XX  described as neuroprotective, cytostatic and antiinflammatory. The
XX  mechanism of action of compounds of the invention is antisense inhibition

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CC  of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC  oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC  Compounds of the invention are useful for inhibiting the expression of
CC  human superoxide dismutase 1 in human cells or tissues, and for treating
CC  a disease or condition associated with this enzyme (antisense therapy),
CC  especially amyotrophic lateral sclerosis, a disease or condition arising
CC  from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC  used in diagnostics, therapeutics and as a research reagent, e.g.
CC  prophylactically to prevent or delay infection, inflammation or tumour
CC  formation. Sequences given in records ACC40890-ACC40957 represent human
CC  superoxide dismutase 1 antisense inhibitor oligonucleotides
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SQ  Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 U; 0 Other;

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  174 AAGGACTGACTGAAGGCGCTG 193
Db  20 AAGGACTGACTGAAGGCGCTG 1

RESULT 59
ACC40899/c
ID  ACC40899 standard; DNA; 20 BP.
XX  AC  ACC40899;
XX  AC  ACC40899;
DT  23-MAY-2003 (first entry)
XX  Human superoxide dismutase 1 antisense inhibitor # ISIS 150453.
DE  Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX  antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX  hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX  ss.
OS  Homo sapiens.
OS  Synthetic.
XX  Key      Location/Qualifiers
FH  modified_base 1..20
FT  /*tag= a
FT  /mod_base= OTHER
FT  /note= "Phosphorothioate linkages. All cytosines are 5-
FT  methylcytosine"
FT  modified_base 1..5
FT  /*tag= b
FT  /mod_base= OTHER
FT  /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT  modified_base 16..20
FT  /*tag= c
FT  /mod_base= OTHER
FT  /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX  WO2003000707-A2.
XX  03-JAN-2003.
XX  19-JUN-2002; 2002WO-US019664.
XX  21-JUN-2001; 2001US-00888360.
XX  (ISIS-) ISIS PHARM INC.
XX  Bennett FC, Dobie K;
XX  WPI; 2003-184032/18.
XX  Novel antisense compounds targeted to nucleic acids encoding human
XX  superoxide dismutase 1, for modulating expression of the dismutase and
XX  treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX  Claim 3; Page 76; 107pp; English.
XX  The invention relates to a compound of 8-50 nucleobases in length,
XX  targeted to a nucleic acid molecule encoding human superoxide dismutase
XX  1. The compound specifically hybridises with and inhibits the expression
XX  of human superoxide dismutase 1 by hybridising with at least an 8-
XX  nucleobase portion of the nucleic acid molecule encoding the active site
XX  of the enzyme. The activity of compounds of the invention may be
XX  described as neuroprotective, cytostatic and antiinflammatory. The
XX  mechanism of action of compounds of the invention is antisense inhibition

```

XX PS Claim 3; Page 76; 107pp; English.

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CC of human superoxide dismutase 1 by hybridising with at least an 8-

CC nucleobase portion of the nucleic acid molecule encoding the active site

CC of the enzyme. The activity of compounds of the invention may be

CC described as neuroprotective, cytostatic and antiinflammatory. The

CC mechanism of action of compounds of the invention is antisense inhibition

CC of human superoxide dismutase 1 expression by chimeric phosphorothioate

CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

CC Compounds of the invention are useful for inhibiting the expression of

CC human superoxide dismutase 1 in human cells or tissues, and for treating

CC a disease or condition associated with this enzyme (antisense therapy),

CC especially amyotrophic lateral sclerosis, a disease or condition arising

CC from aberrant apoptosis and a hyperproliferative disorder. It may also be

CC used in diagnostics, therapeutics and as a research reagent, e.g.

CC prophylactically to prevent or delay infection, inflammation or tumour

CC formation. Sequences given in records ACC40880-ACC40957 represent human

CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACAGCAGCGGTGAC 240

DB 20 GATAATACAGCAGCGGTGAC 1

RESULT 60

ACC40928/c

ID ACC40928 standard; DNA; 20 BP.

XX AC ACC40928;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150482.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX KW ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX PH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-

FT methylcytosine"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT WO2003000707-A2.

XX PN 03-JAN-2003.

XX PD 19-JUN-2002; 2002WO-US019664.

XX PF

PR 21-JUN-2001; 2001US-00888360.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Bennett FC, Dobie K;

XX WI WPI; 2003-184032/18.

XX PT Novel antisense compounds targeted to nucleic acids encoding human

PT superoxide dismutase 1, for modulating expression of the dismutase and

PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX PS Claim 3; Page 77; 107pp; English.

XX CC The invention relates to a compound of 8-50 nucleobases in length,

CC targeted to a nucleic acid molecule encoding human superoxide dismutase

CC 1. The compound specifically hybridises with and inhibits the expression

CC of human superoxide dismutase 1 by hybridising with at least an 8-

CC nucleobase portion of the nucleic acid molecule encoding the active site

CC of the enzyme. The activity of compounds of the invention may be

CC described as neuroprotective, cytostatic and antiinflammatory. The

CC mechanism of action of compounds of the invention is antisense inhibition

CC of human superoxide dismutase 1 expression by chimeric phosphorothioate

CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

CC Compounds of the invention are useful for inhibiting the expression of

CC human superoxide dismutase 1 in human cells or tissues, and for treating

CC a disease or condition associated with this enzyme (antisense therapy),

CC especially amyotrophic lateral sclerosis, a disease or condition arising

CC from aberrant apoptosis and a hyperproliferative disorder. It may also be

CC used in diagnostics, therapeutics and as a research reagent, e.g.

CC prophylactically to prevent or delay infection, inflammation or tumour

CC formation. Sequences given in records ACC40880-ACC40957 represent human

CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX SQ Sequence 20 BP; 5 A; 4 C; 2 G; 9 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCAGATGGGTATTTAA 788

DB 20 AATCAGATGGGTATTTAA 1

RESULT 61

ACC40944/c

ID ACC40944 standard; DNA; 20 BP.

XX AC ACC40944;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150498.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX KW ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX PH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-

FT methylcytosine"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

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FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
PN WO2003000707-A2.
XX
PD 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 5 A; 4 C; 3 G; 8 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 849 TGAGGCTATTAAAGAAATCC 868
DB 20 TGAGGCTATTAAAGAAATCC 1
XX
RESULT 62
ACC40884/c
ID ACC40884 standard; DNA; 20 BP.
XX
XX ACC40884;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150438.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX Synthetic.

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XX Key Location/Qualifiers
FH modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Claim 3; Page 76; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 19 CCGTTCAGTCCTCGGAACC 38
DB 20 CCGTTCAGTCCTCGGAACC 1
XX
RESULT 63
ACC40886/c
ID ACC40886 standard; DNA; 20 BP.
XX
XX ACC40886;
XX

```

23-MAY-2003 (first entry)  
Human superoxide dismutase 1 antisense inhibitor # ISIS 150440.  
Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
hyperproliferative disorder; therapy; infection; inflammation; tumour;  
ss.  
Homo sapiens.  
Synthetic.  
Key Location/Qualifiers  
modified\_base 1..20  
/tag= a  
/mod\_base= OTHER  
/note= "Phosphorothioate linkages. All cytosines are 5-methylcytosine"  
modified\_base 1..5  
/tag= b  
/mod\_base= OTHER  
/note= "2'-methoxyethyl (2'-MOE) nucleotides"  
modified\_base 16..20  
/tag= c  
/mod\_base= OTHER  
/note= "2'-methoxyethyl (2'-MOE) nucleotides"  
WO2003000707-A2.  
03-JAN-2003.  
19-JUN-2002; 2002WO-US019664.  
21-JUN-2001; 2001US-00888360.  
(ISIS-) ISIS PHARM INC.  
Bennett FC, Dobie K;  
WPI; 2003-184032/18.  
Novel antisense compounds targeted to nucleic acids encoding human superoxide dismutase 1, for modulating expression of the dismutase and treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
Example 15; Page 76; 107pp; English.  
The invention relates to a compound of 8-50 nucleobases in length, targeted to a nucleic acid molecule encoding human superoxide dismutase 1. The compound specifically hybridises with and inhibits the expression of human superoxide dismutase 1 by hybridising with at least an 8-nucleobase portion of the nucleic acid molecule encoding the active site of the enzyme. The activity of compounds of the invention may be described as neuroprotective, cytostatic and antiinflammatory. The mechanism of action of compounds of the invention is antisense inhibition of human superoxide dismutase 1 expression by chimeric phosphorothioate oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. Compounds of the invention are useful for inhibiting the expression of human superoxide dismutase 1 in human cells or tissues, and for treating a disease or condition associated with this enzyme (antisense therapy), from aberrant apoptosis and a hyperproliferative disorder. It may also be used in diagnostics, therapeutics and as a research reagent, e.g. prophylactically to prevent or delay infection, inflammation or tumour formation. Sequences given in records ACC40880-ACC40957 represent human superoxide dismutase 1 antisense inhibitor oligonucleotides  
Sequence 20 BP; 3 A; 5 C; 8 G; 4 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 GTCTCGGAACAGGACCTC 46  
DB 20 GTCTCGGAACAGGACCTC 1  
RESULT 64  
ACC40889/c  
ID ACC40889 standard; DNA; 20 BP.  
XX ACC40889;  
XX  
XX 23-MAY-2003 (first entry)  
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150443.  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;  
XX ss.  
XX Homo sapiens.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-methylcytosine"  
FT modified\_base 1..5  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
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WO2003000707-A2.  
XX  
XX 03-JAN-2003.  
XX  
XX 19-JUN-2002; 2002WO-US019664.  
XX  
XX 21-JUN-2001; 2001US-00888360.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett FC, Dobie K;  
XX  
XX WPI; 2003-184032/18.  
XX  
XX Novel antisense compounds targeted to nucleic acids encoding human superoxide dismutase 1, for modulating expression of the dismutase and treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
XX Claim 3; Page 76; 107pp; English.  
XX  
XX The invention relates to a compound of 8-50 nucleobases in length, targeted to a nucleic acid molecule encoding human superoxide dismutase 1. The compound specifically hybridises with and inhibits the expression of human superoxide dismutase 1 by hybridising with at least an 8-nucleobase portion of the nucleic acid molecule encoding the active site of the enzyme. The activity of compounds of the invention may be described as neuroprotective, cytostatic and antiinflammatory. The mechanism of action of compounds of the invention is antisense inhibition of human superoxide dismutase 1 expression by chimeric phosphorothioate oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. Compounds of the invention are useful for inhibiting the expression of human superoxide dismutase 1 in human cells or tissues, and for treating a disease or condition associated with this enzyme (antisense therapy), especially amyotrophic lateral sclerosis, a disease or condition arising from aberrant apoptosis and a hyperproliferative disorder. It may also be

CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40890-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 1 A; 9 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 96 GCGACGGCCAGTCGAGGCG 115  
 DB 20 GCGACGGCCAGTCGAGGCG 1  
 RESULT 65  
 ACC40894/C  
 ID ACC40894 standard; DNA; 20 BP.  
 XX  
 AC ACC40894;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150448.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT  
 XX  
 PN WO2003000707-A2.  
 XX  
 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.  
 XX  
 PT Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Claim 3; Page 76; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-

CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40890-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 4 A; 7 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 161 TGGGGAGCATTAAAGGACT 180  
 DB 20 TGGGGAGCATTAAAGGACT 1  
 RESULT 66  
 ACC40931/C  
 ID ACC40931 standard; DNA; 20 BP.  
 XX  
 AC ACC40931;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150485.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
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 FT  
 XX  
 PN WO2003000707-A2.  
 XX  
 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
PS Example 15; Page 77; 107pp; English.  
XX  
CC The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
CC Compounds of the invention are useful for inhibiting the expression of  
CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
SQ Sequence 20 BP; 9 A; 2 C; 3 G; 6 T; 0 U; 0 Other;  
  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 795 AGAATTCCTTCGTCATTCAA 814  
DB 20 AGAATTCCTTCGTCATTCAA 1  
|||||  
  
RESULT 67  
ACC40937/C  
ID ACC40937 standard; DNA; 20 BP.  
XX  
AC ACC40937;  
XX  
DT 23-MAY-2003 (first entry)  
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150491.  
XX  
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
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XX  
FN WO2003000707-A2.  
XX

PD 03-JAN-2003.  
XX  
PF 19-JUN-2002; 2002WO-US019664.  
XX  
PR 21-JUN-2001; 2001US-00888360.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Bennett FC, Dobie K;  
XX  
DR WPI; 2003-184032/18.  
XX  
PT Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
PS Example 15; Page 77; 107pp; English.  
XX  
CC The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
CC Compounds of the invention are useful for inhibiting the expression of  
CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
SQ Sequence 20 BP; 5 A; 4 C; 3 G; 8 T; 0 U; 0 Other;  
  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 820 TGAATAAAACCCCTGTATGG 839  
DB 20 TGAATAAAACCCCTGTATGG 1  
|||||  
  
RESULT 68  
ACC40909/C  
ID ACC40909 standard; DNA; 20 BP.  
XX  
AC ACC40909;  
XX  
DT 23-MAY-2003 (first entry)  
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150463.  
XX  
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT



FT modified\_base 1. .5  
 FT /tag= b  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 modified\_base 16. .20  
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 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 PN 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 PA Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 PT Claim 3; Page 77; 107pp; English.  
 PS The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 504 GTGGTGTAAATGGATGCC 523  
 Db 20 GTGGTGTAAATGGATGCC 1  
 RESULT 69  
 ACC40942/c  
 ID ACC40942 standard; DNA; 20 BP.  
 XX ACC40942;  
 AC 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150496.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; inflammation; tumour;

XX ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FT modified\_base 1. .20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 modified\_base 1. .5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 modified\_base 16. .20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 PN 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 PA Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 PT Example 15; Page 77; 107pp; English.  
 PS The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
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 CC mechanism of action of compounds of the invention is antisense inhibition  
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 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX SQ Sequence 20 BP; 7 A; 5 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 835 TATGGCACTATTATGAGGC 854  
 Db 20 TATGGCACTATTATGAGGC 1  
 RESULT 70  
 ACC40902/c

ID ACC40902 standard; DNA; 20 BP.  
AC ACC40902;  
XX  
XX 23-MAY-2003 (first entry)  
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150456.  
DE  
DE  
XX Human, superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT  
FT  
XX WO2003000707-A2.  
XX  
XX  
XX 03-JAN-2003.  
XX  
XX 19-JUN-2002; 2002WO-US019664.  
XX  
XX 21-JUN-2001; 2001US-00888360.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
PI  
PI  
DR WPI; 2003-184032/18.  
XX  
XX Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
XX Claim 3; Page 76; 107pp; English.  
XX  
XX The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
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CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
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CC mechanism of action of compounds of the invention is antisense inhibition  
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CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
XX Sequence 20 BP; 3 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 335 GACAAAGATGGTGTGCCGA 354  
DB 20 GACAAAGATGGTGTGCCGA 1  
RESULT 71  
ACC40919/c  
ID ACC40919 standard; DNA; 20 BP.  
XX  
XX ACC40919;  
XX  
XX 23-MAY-2003 (first entry)  
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150473.  
DE  
DE  
XX Human, superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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FT  
XX WO2003000707-A2.  
XX  
XX  
XX 03-JAN-2003.  
XX  
XX 19-JUN-2002; 2002WO-US019664.  
XX  
XX 21-JUN-2001; 2001US-00888360.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
PI  
PI  
DR WPI; 2003-184032/18.  
XX  
XX Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
XX Claim 3; Page 77; 107pp; English.  
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XX The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
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CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
XX Sequence 20 BP; 3 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 686 TTATGATCACTTGGAGAGTT 705  
 Db 20 TTATGATCACTTGGAGAGTT 1  
 RESULT 72  
 ACC40921/c  
 ID ACC40921 standard; DNA; 20 BP.  
 XX  
 AC ACC40921;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150475.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
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 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 PN WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Example 15; Page 77; 107pp; English.  
 XX

CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
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 CC mechanism of action of compounds of the invention is antisense inhibition  
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 CC Compounds of the invention are useful for inhibiting the expression of  
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 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 2 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 707 GTATAGTTTTATAAACTCA 726  
 Db 20 GTATAGTTTTATAAACTCA 1  
 RESULT 73  
 ACC40885/c  
 ID ACC40885 standard; DNA; 20 BP.  
 XX  
 AC ACC40885;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150439.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 XX  
 FH Key Location/Qualifiers  
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 FT methylycytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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 XX  
 PN WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX

XX PI Bennett FC, Dobie K;  
XX XX WPI; 2003-184032/18.  
XX  
PT Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
PS Claim 3; Page 76; 107pp; English.  
XX  
CC The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
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CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40890-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
SQ Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 23 TGCAGTCTCGGAACCAAGGA 42  
DB 20 TGCAGTCTCGGAACCAAGGA 1  
  
RESULT 74  
ABZ79576  
ID ABZ79576 standard; DNA; 20 BP.  
XX  
AC ABZ79576;  
XX  
DT 23-MAY-2003 (first entry)  
DE Human superoxide dismutase 1 forward primer sequence.  
XX  
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003000707-A2.  
XX  
PD 03-JAN-2003.  
XX  
PF 19-JUN-2002; 2002WO-US019664.  
XX  
PR 21-JUN-2001; 2001US-00888360.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Bennett FC, Dobie K;  
XX  
DR WPI; 2003-184032/18.  
XX

PT Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
PS Example 13; Page 74; 107pp; English.  
XX  
CC The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
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CC mechanism of action of compounds of the invention is antisense inhibition  
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CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. The current sequence represents the human superoxide dismutase  
CC 1 forward primer sequence  
XX  
SQ Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 49 CGTGGCCTAGCGAGTTATGG 68  
DB 1 CGTGGCCTAGCGAGTTATGG 20  
  
RESULT 75  
ABZ79577/c  
ID ABZ79577 standard; DNA; 20 BP.  
XX  
AC ABZ79577;  
XX  
DT 23-MAY-2003 (first entry)  
DE Human superoxide dismutase 1 reverse primer sequence.  
XX  
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003000707-A2.  
XX  
PD 03-JAN-2003.  
XX  
PF 19-JUN-2002; 2002WO-US019664.  
XX  
PR 21-JUN-2001; 2001US-00888360.  
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 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. The current sequence represents the human superoxide dismutase  
 CC 1 forward primer sequence  
 XX  
 SQ Sequence 20 BP; 6 A; 4 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 108 TGCAGGGCATCATCAATTTTC 127  
 DB 20 TGCAGGGCATCATCAATTC 1  
 RESULT 76  
 ACC40900/c  
 ID ACC40900 standard; DNA; 20 BP.  
 XX  
 AC ACC40900;  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150454.  
 DE  
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT  
 XX WO2003000707-A2.  
 PN  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 PR  
 XX

(ISIS-) ISIS PHARM INC.  
 Bennett FC, Dobie K;  
 WPI; 2003-184032/18.  
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 a disease or condition associated with this enzyme (antisense therapy),  
 especially amyotrophic lateral sclerosis, a disease or condition arising  
 from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 used in diagnostics, therapeutics and as a research reagent, e.g.  
 prophylactically to prevent or delay infection, inflammation or tumour  
 formation. Sequences given in records ACC40880-ACC40957 represent human  
 superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 5 A; 8 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 304 GCATGTTGGAGACTTGGGCA 323  
 DB 20 GCATGTTGGAGACTTGGGCA 1  
 RESULT 77  
 ACC40938/c  
 ID ACC40938 standard; DNA; 20 BP.  
 XX  
 AC ACC40938;  
 XX  
 XX 23-MAY-2003 (first entry)  
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150492.  
 DE  
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
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 FT /tag= a  
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
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 FT modified\_base 1..5  
 FT /tag= b  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
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PN WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
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XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 5 A; 3 C; 5 G; 7 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 825 AAAAACCCCTGTATGGCACTT 844
DB 20 AAAAACCCCTGTATGGCACTT 1
RESULT 78
ACC40939/c
ID ACC40939 standard; DNA; 20 BP.
XX
XX ACC40939;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150493.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers

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FT modified_base 1..20
FT /*tag= a
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FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
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PN WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
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XX superoxide dismutase 1, for modulating expression of the dismutase and
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XX human superoxide dismutase 1 in human cells or tissues, and for treating
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XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 7 A; 3 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 829 ACCCTGTATGGCACTTATTA 848
DB 20 ACCCTGTATGGCACTTATTA 1
RESULT 79
ACC40905/c
ID ACC40905 standard; DNA; 20 BP.
XX
XX ACC40905;
XX
XX 23-MAY-2003 (first entry)
XX

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DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150459.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.

XX Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
 XX modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"

XX modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX modified\_base 16..20  
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XX WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;  
 PI WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX Claim 3; Page 77; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 7 A; 8 C; 3 G; 2 T; 0 U; 0 Other;  
 SQ

Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGTGGCCGATGTGCTA 362  
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Db 20 TGGTGTGGCCGATGTGCTA 1

RESULT 80  
 ACC40918/c  
 ID ACC40918 standard; DNA; 20 BP.

XX ACC40918;  
 AC

XX 23-MAY-2003 (first entry)  
 DT

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150472.  
 DE

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.

XX Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
 XX modified\_base 1..20  
 FT /\*tag= a  
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 FT methylcytosine"

XX modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX modified\_base 16..20  
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XX WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;  
 PI WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

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XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
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 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
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 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour

CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 671 TAGTGAGAACTGATTATG 690  
 Db 20 TAGTGAGAACTGATTATG 1  
 RESULT 81  
 ID ACC40934/c  
 XX ACC40934 standard; DNA; 20 BP.  
 AC ACC40934;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150488.  
 DE  
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 FT modified\_base 1..20  
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 XX  
 PN WO2003000707-A2.  
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 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA Bennett FC, Dobie K;  
 PI WPI; 2003-184032/18.  
 XX  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Claim 3; Page 77; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
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 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be

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 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 3 A; 3 C; 5 G; 9 T; 0 U; 0 Other;  
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 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 812 CAAGCCTGTGAATAAAACC 831  
 Db 20 CAAGCCTGTGAATAAAACC 1  
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 AC ACC40941;  
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 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150495.  
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 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 FT modified\_base 16..20  
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 PN WO2003000707-A2.  
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 PD 03-JAN-2003.  
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 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA Bennett FC, Dobie K;  
 PI WPI; 2003-184032/18.  
 XX  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Claim 3; Page 77; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
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 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be



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PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX  
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CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
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CC mechanism of action of compounds of the invention is antisense inhibition  
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CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
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CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
SQ Sequence 20 BP; 8 A; 5 C; 2 G; 5 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 833 TGTATGGCACTTATTATGAG 852  
DB 20 TGTATGGCACTTATTATGAG 1  
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RESULT 83  
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ID ACC40895 standard; DNA; 20 BP.  
XX  
AC ACC40895;  
XX  
DT 23-MAY-2003 (first entry)  
XX  
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150449.  
XX  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX Homo sapiens.  
OS Synthetic.  
XX  
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FT modified\_base 1..20  
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FT modified\_base 1..5  
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FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX  
XX WO2003000707-A2.  
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XX 03-JAN-2003.  
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PF 19-JUN-2002; 2002WO-US019664.  
XX  
PR 21-JUN-2001; 2001US-00888360.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
DR  
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PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
PT  
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CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
SQ Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 173 AAAGGACTGACTGAGGCCT 192  
DB 20 AAAGGACTGACTGAGGCCT 1  
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RESULT 84  
ACC40901/c  
ID ACC40901 standard; DNA; 20 BP.  
XX  
AC ACC40901;  
XX  
DT 23-MAY-2003 (first entry)  
XX  
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150455.  
XX  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
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FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT modified\_base 1..5  
FT /\*tag= b  
FT

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FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
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XX superoxide dismutase 1, for modulating expression of the dismutase and
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XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 6 A; 8 C; 2 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX |||||
XX 20 TTGGAGACTTGGCAATGTC 1
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XX RESULT 85
XX ACC40916/c
XX ID ACC40916 standard; DNA; 20 BP.
XX AC
XX ACC40916;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150470.
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX

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OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate linkages. All cytosines are 5-
XX methylcytosine"
XX modified_base 1..5
XX /tag= b
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX modified_base 16..20
XX /tag= c
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 6 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 667 CCTGTAGTGAAGAACTGATT 586
XX |||||
XX 20 CCTGTAGTGAAGAACTGATT 1
XX
XX RESULT 86
XX ACC40929/c
XX ID ACC40929 standard; DNA; 20 BP.
XX

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CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 9 A; 3 C; 2 G; 6 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 727 GTTAAATGCTGTTTCAAT 746  
 DB 20 GTTAAATGCTGTTTCAAT 1  
 RESULT 88  
 ACC40925/c  
 ID ACC40925 standard; DNA; 20 BP.  
 XX  
 AC ACC40925;  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150479.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
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 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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 XX  
 PN W02003000707-A2.  
 XX  
 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
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 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 3 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 729 TAAATGCTGTTTCAATGA 748  
 DB 20 TAAATGCTGTTTCAATGA 1  
 RESULT 89  
 ACC40926/c  
 ID ACC40926 standard; DNA; 20 BP.  
 XX  
 AC ACC40926;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150480.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
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 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 PN W02003000707-A2.  
 XX  
 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
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XX used in diagnostics, therapeutics and as a research reagent, e.g.

XX prophylactically to prevent or delay infection, inflammation or tumour

XX formation. Sequences given in records ACC40880-ACC40957 represent human

XX superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 9 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 736 TCTCTTTCATGACCTGTAT 755

DB 20 TCTGTTTCATGACCTGTAT 1

RESULT 90

ACC40888/C

ID ACC40888 standard; DNA; 20 BP.

XX ACC40888;

XX 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150442.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX ss.

XX Homo sapiens.

XX Synthetic.

XX Key Location/Qualifiers

XX modified\_base 1..20

XX /tag= a

XX /mod\_base= OTHER

XX /note= "Phosphorothioate linkages. All cytosines are 5-

XX methylcytosine"

XX modified\_base 1..5

XX /tag= b

XX /mod\_base= OTHER

XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX modified\_base 16..20

XX /tag= c

XX /mod\_base= OTHER

XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"

PN WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

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XX formation. Sequences given in records ACC40880-ACC40957 represent human

XX superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 GCCTAGCGAGTTATGCGGAC 72

DB 20 GCCTAGCGAGTTATGCGGAC 1

RESULT 91

ACC40891/C

ID ACC40891 standard; DNA; 20 BP.

XX ACC40891;

XX 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150445.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX ss.

XX Homo sapiens.

XX Synthetic.

XX Key Location/Qualifiers

XX modified\_base 1..20

XX /tag= a

XX /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT 1..5  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT 16..20  
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 XX  
 PN WO2003000707-A2.  
 PN  
 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.  
 XX  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
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 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 135 AGGAAGTAATGGACCAAGT 154  
 DB 20 AGGAAGTAATGGACCAAGT 1  
 RESULT 92  
 ACC40917/C  
 ID ACC40917 standard; DNA; 20 BP.  
 XX  
 XX AC  
 XX ACC40917;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150471.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

ant inflammatory; amyotrophic lateral sclerosis; apoptosis;  
 hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 ss.  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT 1..5  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT 16..20  
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 PN WO2003000707-A2.  
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 PD 03-JAN-2003.  
 XX  
 PF 19-JUN-2002; 2002WO-US019664.  
 XX  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.  
 XX  
 DR Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
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 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
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 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
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 QY 670 GTAGTCAGAACTGATTAT 689  
 DB 20 GTAGTCAGAACTGATTAT 1

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RESULT 93
ACC40922/c
ID ACC40922 standard; DNA; 20 BP.
XX AC ACC40922;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150476.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
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FT /mod_base= OTHER
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FT methylcytosine"
FT modified_base 1..5
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
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XX WPI; 2003-184032/18.
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XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
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```
SQ Sequence 20 BP; 9 A; 2 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 710 TAGTTTTATATAAACTCAGTT 729
Db 20 TAGTTTTATATAAACTCAGTT 1

RESULT 94
ACC40923/c
ID ACC40923 standard; DNA; 20 BP.
XX AC ACC40923;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150477.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= a
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FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
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XX Bennett FC, Dobie K;
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 XX  
 SQ Sequence 20 BP; 7 A; 3 C; 3 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 721 AACTCAGTTAAATGCTGT 740.  
 Db 20 AACTCAGTTAAATGCTGT 1  
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 RESULT 95  
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 ID ACC40935 standard; DNA; 20 BP.  
 AC ACC40935;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150489.  
 DE  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
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 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT  
 FT WO2003000707-A2.  
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 PN 03-JAN-2003.  
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 XX 19-JUN-2002; 2002WO-US019664.  
 PF  
 PR 21-JUN-2001; 2001US-00888360.  
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 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 XX WPI; 2003-184032/18.  
 DR  
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 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisenase therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
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 QY 814 AGCCTGTGTAATAAACCT 833  
 Db 20 AGCCTGTGTAATAAACCT 1  
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 RESULT 96  
 ACC40881/c  
 ID ACC40881 standard; DNA; 20 BP.  
 AC ACC40881;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 146144.  
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 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 FT modified\_base 16..20  
 FT /\*tag= c  
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 FT WO2003000707-A2.  
 PN  
 PN 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 PF  
 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 XX WPI; 2003-184032/18.  
 DR  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX



XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Bennett FC, Dobie K;  
 XX PN WPI; 2003-184032/18.  
 XX DR Novel antisense compounds targeted to nucleic acids encoding human  
 XX PT superoxide dismutase 1, for modulating expression of the dismutase and  
 XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX PS Example 15; Page 76; 107pp; English.  
 XX XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40890-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX SQ Sequence 20 BP; 4 A; 9 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 78 CCGTGTGCGTGTGAAGGCG 97  
 Db 20 CCGTGTGCGTGTGAAGGCG 1  
 RESULT 97  
 ACC40890/c  
 ID ACC40890 standard; DNA; 20 BP.  
 XX AC ACC40890;  
 XX DT 23-MAY-2003 (first entry)  
 XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150444.  
 XX XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX XX Homo sapiens.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 XX FT modified\_base 1..20  
 XX FT /\*tag= a  
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 XX FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 XX FT modified\_base 1..5  
 XX FT /\*tag= b  
 XX FT /mod\_base= OTHER  
 XX FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX FT modified\_base 16..20

FT FT /\*tag= c  
 FT FT /mod\_base= OTHER  
 XX XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX PN WO2003000707-A2.  
 XX PD 03-JAN-2003.  
 XX PF 19-JUN-2002; 2002WO-US019664.  
 XX PR 21-JUN-2001; 2001US-00888360.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Bennett FC, Dobie K;  
 XX DR WPI; 2003-184032/18.  
 XX PT Novel antisense compounds targeted to nucleic acids encoding human  
 XX PT superoxide dismutase 1, for modulating expression of the dismutase and  
 XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX PS Claim 3; Page 76; 107pp; English.  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
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 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40890-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX SQ Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 106 AGTGACGGGATCATCAATT 125  
 Db 20 AGTGACGGGATCATCAATT 1  
 RESULT 98  
 ACC40906/c  
 ID ACC40906 standard; DNA; 20 BP.  
 XX AC ACC40906;  
 XX DT 23-MAY-2003 (first entry)  
 XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150460.  
 XX XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX XX Homo sapiens.  
 OS Synthetic.  
 XX XX

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FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-0088360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
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XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 404 ATTGGCCGACACTGGTGGT 423
Db 20 ATTGGCCGACACTGGTGGT 1
RESULT 99
ACC40910/c
ID ACC40910 standard; DNA; 20 BP.
XX ACC40910;
XX AC
XX 23-MAY-2003 (first entry)

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XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150464.
XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX Key Location/Qualifiers
FH modified_base 1..20
FH /tag= a
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XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-0088360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
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XX Claim 3; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
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XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
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XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 4 A; 2 C; 7 G; 7 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 20 GATGCCCAATAAATTC 1

RESULT 100  
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ID ACC40933 standard; DNA; 20 BP.  
XX AC ACC40933;  
XX DT 23-MAY-2003 (first entry)  
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150487.  
XX  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX Homo sapiens.  
XX OS Synthetic.  
XX  
XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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XX WO2003000707-A2.  
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XX 03-JAN-2003.  
XX  
XX 19-JUN-2002; 2002WO-US019664.  
XX  
XX 21-JUN-2001; 2001US-00888360.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
XX  
XX The invention relates to a compound of 8-50 nucleobases in length,  
XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
XX 1. The compound specifically hybridises with and inhibits the expression  
XX of human superoxide dismutase 1 by hybridising with at least an 8-  
XX nucleobase portion of the nucleic acid molecule encoding the active site  
XX of the enzyme. The activity of compounds of the invention may be  
XX described as neuroprotective, cytostatic and antiinflammatory. The  
XX mechanism of action of compounds of the invention is antisense inhibition  
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
XX Compounds of the invention are useful for inhibiting the expression of  
XX human superoxide dismutase 1 in human cells or tissues, and for treating  
XX a disease or condition associated with this enzyme (antisense therapy),  
XX especially amyotrophic lateral sclerosis, a disease or condition arising  
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be  
XX used in diagnostics, therapeutics and as a research reagent, e.g.

CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX  
XX Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;  
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XX AC ACC40880;  
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XX 23-MAY-2003 (first entry)  
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 146143.  
XX  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
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XX 03-JAN-2003.  
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XX 19-JUN-2002; 2002WO-US019664.  
XX  
XX 21-JUN-2001; 2001US-00888360.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
XX  
XX Novel antisense compounds targeted to nucleic acids encoding human  
XX superoxide dismutase 1, for modulating expression of the dismutase and  
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX Claim 3; Page 76; 107pp; English.  
XX  
XX The invention relates to a compound of 8-50 nucleobases in length,  
XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
XX 1. The compound specifically hybridises with and inhibits the expression  
XX of human superoxide dismutase 1 by hybridising with at least an 8-  
XX nucleobase portion of the nucleic acid molecule encoding the active site  
XX of the enzyme. The activity of compounds of the invention may be  
XX described as neuroprotective, cytostatic and antiinflammatory. The  
XX mechanism of action of compounds of the invention is antisense inhibition  
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
XX Compounds of the invention are useful for inhibiting the expression of  
XX human superoxide dismutase 1 in human cells or tissues, and for treating  
XX a disease or condition associated with this enzyme (antisense therapy),  
XX especially amyotrophic lateral sclerosis, a disease or condition arising  
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be  
XX used in diagnostics, therapeutics and as a research reagent, e.g.

CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
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 AC ACC40907;  
 XX  
 DT 23-MAY-2003 (first entry)  
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 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
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 FT /\*tag= c  
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
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 PF 19-JUN-2002; 2002WO-US019664.  
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 PR 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.  
 XX

PT Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Claim 3; Page 77; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
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 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
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 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 409 CGCACACCTGTGTGCCATG 428  
 Db 20 CGCACACCTGTGTGCCATG 1  
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 RESULT 103  
 ID ACC40927/c  
 XX ACC40927 standard; DNA; 20 BP.  
 AC ACC40927;  
 XX  
 DT 23-MAY-2003 (first entry)  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150481.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
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 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
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 XX 03-JAN-2003.  
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XX 19-JUN-2002; 2002WO-US019664.
XX PF
XX 21-JUN-2001; 2001US-00888360.
XX PR
XX (ISIS-) ISIS PHARM INC.
XX PA
XX Bennett FC, Dobie K,
XX PI
XX WPI; 2003-184032/18.
XX DR
XX Novel antisense compounds targeted to nucleic acids encoding human
XX PT superoxide dismutase 1, for modulating expression of the dismutase and
XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX PT
XX Claim 3; Page 77; 107pp; English.
XX PS
XX The invention relates to a compound of 8-50 nucleobases in length,
XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase
XX CC 1. The compound specifically hybridises with and inhibits the expression
XX CC of human superoxide dismutase 1 by hybridising with at least an 8-
XX CC nucleobase portion of the nucleic acid molecule encoding the active site
XX CC of the enzyme. The activity of compounds of the invention may be
XX CC described as neuroprotective, cyostatic and antiinflammatory. The
XX CC mechanism of action of compounds of the invention is antisense inhibition
XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX CC Compounds of the invention are useful for inhibiting the expression of
XX CC human superoxide dismutase 1 in human cells or tissues, and for treating
XX CC a disease or condition associated with this enzyme (antisense therapy),
XX CC especially amyotrophic lateral sclerosis, a disease or condition arising
XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX CC used in diagnostics, therapeutics and as a research reagent, e.g.
XX CC prophylactically to prevent or delay infection, inflammation or tumour
XX CC formation. Sequences given in records ACC40880-ACC40957 represent human
XX CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX CC
XX SQ Sequence 20 BP; 4 A; 4 C; 4 G; 8 T; 0 U; 0 Other;
XX
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 761 CAGACTTAATATCAGATGG 780
DB 20 CAGACTTAATATCAGATGG 1
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XXXXXXXXXXXXXXXXXXXX
RESULT 104
ADQ80681/c
ID ADQ80681 standard; DNA; 20 BP.
XX
XX ADQ80681;
XX AC
XX 21-OCT-2004 (first entry)
XX DT
XX Human cytosolic superoxide dismutase 1 RT-PCR primer, hSODc-antisense.
XX DE
XX Survival; neuron; tyrosine hydroxylase; tyrosine 3-monooxygenase; TH;
XX anti-apoptotic; Bcl-XL; neurological disorder; neuroprotective;
XX norepinephrine; antiparkinsonian; transplantation; drug screening;
XX gene profiling; CNS disorder; neurodegenerative disease; primer; ss;
XX hSOD1; RT-PCR; human.
XX KW
XX Homo sapiens.
XX OS
XX WO2004062554-A2.
XX PN
XX 29-JUL-2004.
XX PD
XX 07-JAN-2004; 2004WO-DK000008.
XX PF
XX 08-JAN-2003; 2003US-0438719P.
XX PR

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PR 11-APR-2003; 2003DK-00000581.
PR 22-APR-2003; 2003US-0464546P.
XX
XX (NSGE-) NSGENE AS.
XX PA
XX Martinez-Serrano A, Liste I, Villa A;
XX PI
XX WPI; 2004-544027/52.
XX DR
XX
XX Enhancing the survival of neurons or cells expressing tyrosine
XX PT hydroxylase (TH) for treating neurodegenerative disorders, comprises
XX PT contacting neurons or TH expressing cells with Bcl-XL or its functional
XX PT equivalent.
XX PT
XX Example 2; Page 42; 108pp; English.
XX PS
XX The invention relates to a novel method for enhancing the survival of
XX CC neurons and/or of cells expressing tyrosine hydroxylase (EC 1.14.16.2 -
XX CC tyrosine 3-monooxygenase) (TH+). The method comprises contacting a
XX CC population of cells with Bcl-XL or its functional equivalent, where the
XX CC population of cells is selected from: neurons or cells capable of
XX CC differentiating into neurons; or TH expressing cells or cells capable of
XX CC differentiating into TH expressing cells. The invention further
XX CC comprises: a composition of cells obtainable by the method above; a
XX CC composition of isolated mammalian cells overexpressing the anti-apoptotic
XX CC Bcl-XL protein; a neural progenitor cell; a differentiated dopaminergic
XX CC neuron; an implantable cell culture device comprising: a semi-permeable
XX CC membrane permitting the diffusion of a biologically active protein
XX CC through it; and a composition of cells selected from above; a lentiviral
XX CC vector particle being produced based on a lentiviral transfer vector;
XX CC enhancing the survival of TH+ cells in vivo; a retroviral particle being
XX CC produced based on a retroviral transfer vector; enhancing the survival of
XX CC in vivo differentiated dopaminergic neurons; a packaging cell line
XX CC capable of producing an infective vector particle; a packaging cell line
XX CC capable of producing an infective vector particle; treatment of a
XX CC neurological disorder; a fusion protein comprising the Bcl-XL sequence
XX CC comprising 233 amino acids ADQ80670 or its functional equivalent and a
XX CC membrane translocation signal; an expression vector comprising a
XX CC polynucleotide sequence coding for the fusion protein and a promoter
XX CC sequence capable of directing the expression of the fusion protein in a
XX CC host cell; a host cell comprising the expression vector; and producing
XX CC the fusion protein. The compositions of the invention have
XX CC neuroprotective, neurotropic, and antiparkinsonian activities. The cells
XX CC are useful for transplantation, drug screening, gene profiling, or for
XX CC the preparation of a medicament useful for the treatment of a CNS
XX CC disorder. The CNS disorder is a neurodegenerative disease involving
XX CC lesioned and traumatic neurons, including traumatic lesions of peripheral
XX CC nerves, the medulla, the spinal chord, cerebral ischaemic neuronal
XX CC damage, neuropathy, peripheral neuropathy, Alzheimer's disease,
XX CC Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,
XX CC or memory impairment connected to dementia. The method is useful for
XX CC enhancing the survival of neurons and/or of cells expressing tyrosine
XX CC hydroxylase for the treatment of neurodegenerative disorders. This
XX CC polynucleotide sequence represents a primer used in the exemplification
XX CC of the invention.
XX CC
XX SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
XX
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 538 TTGGATGTAGTCTGAGGCC 557
DB 20 TTGGATGTAGTCTGAGGCC 1
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX
RESULT 105
ADR42714
ID ADR42714 standard; DNA; 20 BP.
XX
XX ADR42714;
XX AC
XX

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PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 XX Brown R, Horvitz HR, Rosen DR;  
 PI WPI; 1994-294353/36.  
 XX  
 DR  
 XX  
 PT Diagnosis, treatment and prevention of diseases of cell death - e.g.  
 PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD  
 PT activity.  
 XX  
 PS Claim 8; Fig 5; 94pp; English.  
 PS  
 XX  
 CC The presence of a mutation in a gene encoding a superoxide dismutase  
 CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a  
 CC cell death disease, specifically a neurodegenerative disease. The DNA can  
 CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by  
 CC a PCR amplification step. AA067476- AA067485 are examples of PCR primers  
 CC which are useful for diagnosis of diseases linked to SOD1 mutations.  
 CC (Updated on 25-MAR-2003 to correct PN field.)  
 XX  
 SQ Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 118 CATCAATTCGAGCAGAAGG 137  
 DB 21 CATCAATTCGAGCAGAAGG 2  
 RESULT 108  
 ID AAV73827/c  
 XX AAV73827; standard; DNA; 21 BP.  
 AC AAV73827;  
 XX  
 DT 24-FEB-1999 (first entry)  
 DE Human SOD1 exon 1 PCR primer #2.  
 XX  
 KW SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;  
 KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;  
 KW familial; ALS; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 OS  
 PN US5849290-A.  
 XX  
 PD 15-DEC-1998.  
 XX  
 PF 07-JUN-1995; 95US-00486953.  
 XX  
 PR 26-FEB-1993; 93US-00023980.  
 PR 28-FEB-1994; 94US-00204052.  
 XX  
 PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 PA (GEO ) GEN HOSPITAL CORP.  
 XX  
 PI Rosen DR, Brown R, Horvitz HR;  
 XX WPI; 1999-069657/06.  
 XX  
 PT Treatment of neurodegenerative disease - by administering super-oxide  
 PT dismutase.  
 XX  
 PS Disclosure; Fig 5; 53pp; English.  
 PS  
 XX AAV73826-V73835 are PCR primers used in the amplification of a novel  
 CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.  
 CC This protein can be used in a method for treating a neurodegenerative  
 CC disease particularly familial amyotrophic lateral sclerosis (ALS)

XX  
 SQ Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 118 CATCAATTCGAGCAGAAGG 137  
 DB 21 CATCAATTCGAGCAGAAGG 2  
 RESULT 109  
 ID ADO55690/c  
 XX ADO55690 standard; DNA; 21 BP.  
 AC ADO55690;  
 XX  
 DT 15-JUL-2004 (first entry)  
 DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #2.  
 XX  
 KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;  
 KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.  
 XX  
 OS Homo sapiens.  
 OS  
 PN US6723893-B1.  
 XX  
 PD 20-APR-2004.  
 XX  
 PF 28-FEB-1994; 94US-00204052.  
 XX  
 PR 26-FEB-1993; 93US-00023980.  
 XX  
 PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 PA (GEO ) GEN HOSPITAL CORP INC.  
 XX  
 PI Brown R, Horvitz HR, Rosen DR;  
 XX WPI; 2004-326924/30.  
 DR  
 XX  
 PT New transgenic mouse having somatic and germ cells containing a transgene  
 PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1  
 PT polypeptide, useful for research or drug development.  
 XX  
 PS Disclosure; SEQ ID NO 5; 54pp; English.  
 XX  
 CC The invention relates to a transgenic mouse having somatic and germ cells  
 CC containing a transgene encoding and expressing a neurodegenerative  
 CC disease-causing mutant SOD1 polypeptide. The invention also relates to a  
 CC method of diagnosing an increased likelihood of developing cell death  
 CC disease in a patient, a kit for the diagnosis of cell death disease in a  
 CC patient, a method of treating a patient with a disease involving a mutant  
 CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method  
 CC of treating a patient with a neoplasm, a bacterial or yeast cell  
 CC containing a purified nucleic acid derived from a FALS gene, a purified  
 CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.  
 CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The  
 CC expression of the mutant polypeptide is under the regulation of the wild-  
 CC type promoter. The transgenic mouse is useful for research or drug  
 CC development. This sequence represents a PCR primer used to amplify SOD1  
 CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)  
 CC polypeptide.  
 XX  
 SQ Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 118 CATCAATTCGAGCAGAAGG 137  
 DB 21 CATCAATTCGAGCAGAAGG 2

Db	21	CATCAATTCGACGAGG	2	Matches	16;	Conservative	4;	Mismatches	0;	Indels	0;	Gaps	0;
RESULT 110													
AD043049													
ID	ADO43049	standard;	RNA; 25 BP.										
XX	AC	ADO43049;											
XX	DT	12-AUG-2004	(first entry)										
XX	DE	Short interfering RNA (sense)	targeted to wild-type SOD allele (P11).										
XX	DE	Superoxide dismutase; SOD; enzyme;	amyotrophic lateral sclerosis;										
KW	KW	short interfering RNA; siRNA; RNA interference;	gene silencing;										
KW	KW	DNA-RNA hybrid; human; ss.											
XX	OS	Homo sapiens.											
XX	FH	Key	Location/Qualifiers										
FT	FT	modified_base	20..25										
FT	FT		/tag= a										
FT	FT		/mod_base= OTHER										
FT	FT		/note= "OTHER= T"										
FT	FT		/note= "In Fig 1A, bases 22-25 are absent"										
XX	PN	WO2004042027-A2.											
XX	PD	21-MAY-2004.											
XX	XX	04-NOV-2003; 2003WO-US035009.											
XX	PF	04-NOV-2002; 2002US-0423507P.											
PR	PR	18-JUL-2003; 2003US-0488283P.											
XX	XX	(UYMA-) UNIV MASSACHUSETTS.											
PA	PI	Xu Z, Zamore PD;											
XX	PI	WPI; 2004-390611/36.											
XX	DR	Inhibiting expression of a target allele in a cell comprising at least											
XX	PT	two different alleles of a gene, for treating CNS disorders, comprises											
PT	PT	administering to the cell an siRNA specific for the target allele.											
XX	XX	Claim 14; SEQ ID NO 9; 61pp; English.											
PS	XX	The present invention provides methods of specifically inhibiting the											
CC	CC	expression of a mutant allele, while preserving the expression of a co-											
CC	CC	expressed wild-type allele, using RNA interference (RNAi). The methods											
CC	CC	are useful for treating a subject having a disorder correlated with the											
CC	CC	presence of a dominant gain of function mutant allele, e.g. amyotrophic											
CC	CC	lateral sclerosis (ALS), Huntington's disease, Alzheimer's disease, and											
CC	CC	Parkinson's disease (claimed). Small interfering RNAs (siRNA) and small											
CC	CC	hairpin RNAs (shRNA) are provided that selectively suppress mutant, but											
CC	CC	not wild-type, expression of copper zinc superoxide dismutase (SOD1),											
CC	CC	which causes inherited ALS. In an example from the invention, an allele											
CC	CC	of SOD1 in which guanosine 256 (relative to the start of translation) was											
CC	CC	mutated to cytosine, generating a Gly to Arg (G85R) mutation, was											
CC	CC	selected. 2 Sets of 3 siRNAs ADO43041-ADO43046 and ADO43049-ADO43054,											
CC	CC	each targeting either wild-type ADO43047 or mutant ADO43048 SOD1 mRNA,											
CC	CC	were designed. The mutated nucleotide was positioned near the predicted											
CC	CC	site of SOD1 mRNA cleavage, i.e. position 9 (P9), 10 (P10) or 11 (P11)											
CC	CC	relative to the 5' end of the antisense strand of the siRNA. The present											
CC	CC	sequence is the sense strand of wild-type siRNA P11; the antisense											
CC	CC	sequence is also provided ADO43050. Each of the 6 siRNAs cleaved the											
CC	CC	corresponding target RNA, although with different efficiencies. P11 was											
CC	CC	less efficient at cleaving the mRNA than wild-type P9 and P10 siRNAs.											
XX	XX	Sequence 25 BP; 5 A; 3 C; 7 G; 6 T; 4 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 20; DB 1; Length 25;										
XX	XX	Best Local Similarity	80.0%; Pred. No. 76;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 310 TGGAGACTTGGGCAATGTGCTG 332											
XX	XX	1 TGGAGACTTGGGCAATGTGCTG 23											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length 23;										
XX	XX	Best Local Similarity	91.3%; Pred. No. 72;										
XX	XX	Matches	21; Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;			
XX	XX	Sequence 23 BP; 4 A; 4 C; 10 G; 5 T; 0 U; 0 Other;											
XX	XX	Query Match	2.3%; Score 19.8; DB 1; Length										





Query Match 2.2%; Score 19.4; DB 1; Length 21;  
 Best Local Similarity 95.2%; Pred. No. 71;  
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGCTGGCCGAT 355  
 DB 1 GACAAAGATGCTGGCCGAT 21

RESULT 114  
 AAN81808/C  
 ID AAN81808 standard; DNA; 22 BP.  
 AC AAN81808;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 20-SEP-1990 (first entry)  
 XX  
 XX Probe used to identify mutant RF M13 clone containing human copper-zinc  
 DE superoxidizedismutase (hsOD) Cys111 gene.  
 XX  
 XX Human copper-zinc superoxidizedismutase Cys111 gene; RF M13 clone;  
 KW M13p8SODC111S DNA probe; thermostable mutin; enzyme; hybridisation.  
 XX  
 XX Synthetic.  
 OS  
 XX EP275202-A.  
 PN  
 XX 20-JUL-1988.  
 PD  
 XX 14-JAN-1988; 88EP-00300294.  
 PF  
 XX 15-JAN-1987; 87US-00003578.  
 PR  
 XX (CHIR ) CHIRON CORP.  
 PA  
 XX Hallewell RA, Tekampolso P;  
 PI WPI; 1988-199638/29.  
 DR  
 XX Mutin of human copper-zinc superoxidizedismutase - having cysteine  
 PT residues replaced with an uncharged amino acid, for increased  
 PT thermostability.  
 XX  
 XX Example; Page 5; 15pp; English.  
 PS  
 XX RF M13 clone containing hsOD Cys111 gene is designated M13p8SODC111S.  
 CC The probe is (32)P-labelled. The patent is for a mutin of hsOD in which  
 CC at least one of the cysteine residues at positions 6 and 111 is replaced  
 CC with an uncharged AA. DNA encoding the mutin is also claimed. Substn. of  
 CC the free cysteines of hsOD with uncharged AAs increases thermostability.  
 CC Cloning and sequencing of hsOD cDNA and the prodn. of hsOD in bacteria  
 CC and yeast are described in EP-138111. (Updated on 25-MAR-2003 to correct  
 CC PF field.) (Updated on 25-MAR-2003 to correct PA field.) (Updated on 25-  
 CC MAR-2003 to correct PI field.)  
 XX  
 SQ Sequence 22 BP; 8 A; 3 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 2.2%; Score 19.4; DB 1; Length 22;  
 Best Local Similarity 95.2%; Pred. No. 75;  
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 368 GATTCTGTGATCTCACTCTCA 388  
 DB 22 GATTCTGTGATCTCACTCTCA 2

RESULT 115  
 ADE52415  
 ID ADE52415 standard; RNA; 23 BP.  
 XX  
 AC ADE52415;

XX  
 DT 29-JAN-2004 (first entry)  
 XX  
 DE siRNA p9 sequence #1 for wild-type human SOD1 gene.  
 XX  
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytosstatic;  
 KW haemostatic; viricide; antibacterial; neuroprotective; nootropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW small interfering RNA; siRNA; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003180756-A1.  
 XX  
 XX 25-SEP-2003.  
 PD  
 XX 21-NOV-2002; 2002US-00301516.  
 PF  
 XX 21-MAR-2002; 2002US-0366478P.  
 PR  
 XX (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 PA  
 XX Shi Y, Sui G;  
 PI  
 XX WPI; 2003-852231/79.  
 DR  
 XX New nucleic acids, useful for inhibiting the synthesis of a target  
 PT protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX  
 PS Example 6; Fig 5A; 38pp; English.  
 XX  
 CC The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a small interfering RNA (siRNA) that can  
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.  
 XX  
 SQ Sequence 23 BP; 5 A; 3 C; 7 G; 2 T; 4 U; 2 Other;

Query Match 2.2%; Score 19.2; DB 1; Length 23;  
 Best Local Similarity 75.0%; Pred. No. 81;  
 Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGCAATGTGACT 331  
 DB 1 GAGACUUGGGCAUGAGACD 20

RESULT 116

AD52417  
ID ADE52417 standard; RNA; 23 BP.  
XX  
AC ADE52417;  
XX  
DT 29-JAN-2004 (first entry)  
XX  
DE siRNA p11 sequence #1 for wild-type human SOD1 gene.  
XX  
KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
KW target DNA sequence; RNA polymerase termination signal;  
KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;  
KW haemostatic; virucide; antibacterial; neuroprotective; nootropic;  
KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
KW small interfering RNA; siRNA; ss.  
XX  
OS Homo sapiens.  
XX  
PN US2003180756-A1.  
XX  
PN US2003180756-A1.  
XX  
PD 25-SEP-2003.  
XX  
PF 21-NOV-2002; 2002US-00301516.  
XX  
PR 21-MAR-2002; 2002US-0366478P.  
XX  
PA (SHIY/) SHI Y.  
PA (SUIG/) SUI G.  
XX  
PI Shi Y, Sui G;  
XX  
DR WPI; 2003-852231/79.  
XX  
PT New nucleic acids, useful for inhibiting the synthesis of a target  
PT protein in a eukaryotic cell, or for treating various diseases by  
PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
PT viral or bacterial infection.  
XX  
PS Example 6; Fig 5A; 38pp; English.  
XX  
CC The present invention relates to a method for suppressing gene expression  
CC in cells, particularly eukaryotic cells. The method involves a new  
CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
CC sequence, a first target sequence that is essentially complementary to a  
CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
CC second target sequence that is essentially complementary to the first  
CC target sequence, and an RNA polymerase termination signal, where an RNA  
CC transcribed from the nucleic acid can inhibit expression of the target  
CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
CC the polymerase termination signal comprises a number of thymidines  
CC sufficient for arresting Pol III activity. The nucleic acids and methods  
CC are useful for suppressing gene expression in cells, or inhibiting the  
CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
CC subject. The nucleic acids can be used for treating various diseases by  
CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
CC such as leukaemia, haemophilia, viral or bacterial infections, and  
CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
CC The present sequence represents a small interfering RNA (siRNA) that can  
CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.  
XX  
SQ Sequence 23 BP; 4 A; 2 C; 8 G; 2 T; 5 U; 2 Other;  
Query Match 2.2%; Score 19.2; DB 1; Length 23;  
Best Local Similarity 70.0%; Pred. No. 81;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 310 TGGAGACTTGGCAATGTGA 329  
:|||||:|||||:|:

Db 1 UGGAGACUUGGCGCAUGCD 20  
RESULT 117  
AAN60181/c  
ID AAN60181 standard; DNA; 19 BP.  
XX  
AC AAN60181;  
XX  
DT 25-MAR-2003 (revised)  
DT 15-AUG-1991 (first entry)  
XX  
DE Sequence of probe complementary to the base sequence corresponding to the  
DE C-terminus of human Cu-Zn superoxide dismutase (SOD).  
XX  
KW Anti-inflammatory; regulatory gene; enzyme; ss.  
XX  
OS Homo sapiens.  
XX  
PN EP180964-A.  
XX  
PN 14-MAY-1986.  
XX  
PD 05-NOV-1985; 85EP-00114073.  
XX  
PF 06-NOV-1984; 84JP-00232395.  
XX  
PR (UBEI ) UBE IND LTD.  
XX  
PA Kumahara H, Maruyama M, Anpeiji S, Owa T;  
XX  
DR WPI; 1986-126415/20.  
XX  
PT Recombinant DNA for transforming microorganism - comprising regulatory  
PT gene and human copper-zinc superoxidizedismutase structural gene.  
XX  
PS Example; Page 16; 40pp; English.  
XX  
CC The claimed Cu-Zn SOD structural gene may be a cDNA derived from mRNA  
CC sepd. from normal human tissues or a synthetic gene for the same AA SQ in  
CC which the codons for some AAs are replaced by codons which are frequently  
CC used in a host organism. The regulatory gene of the colicin E1 gene in  
CC the present invention contains the base sequence from No. 143 to No. 359  
CC in AAN60182 as an essential segment. (Updated on 25-MAR-2003 to correct  
CC PA field.) (Updated on 25-MAR-2003 to correct PI field.)  
XX  
SQ Sequence 19 BP; 4 A; 4 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 2.2%; Score 19; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 69;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 511 AATTGGGATCGCCCAATAA 529  
|||||:|||||:|  
Db 19 AATTGGGATCGCCCAATAA 1  
RESULT 118  
ABQ73056/c  
ID ABQ73056 standard; DNA; 19 BP.  
XX  
AC ABQ73056;  
XX  
DT 24-SEP-2002 (first entry)  
XX  
DE Cu/Zn SOD gene related PCR primer SEQ ID NO:4.  
XX  
KW Amyotrophic lateral sclerosis; ALS; transgenic rat; SOD; Cu/Zn SOD;  
KW superoxide dismutase; PCR primer; ss.  
XX  
OS Rattus sp.  
OS Synthetic.  
XX

PN JP2002142610-A.  
 XX 21-MAY-2002.  
 XX 07-NOV-2000; 2000JP-00339567.  
 XX 07-NOV-2000; 2000JP-00339567.  
 XX (TOHO-) TOHOKU TECHNOARCH KK.  
 XX WPI; 2002-552464/59.  
 DR An amyotrophic lateral sclerosis model rat for investigation of its  
 XX pathology and onset mechanism with introduced exogenic variant Cu/Zn  
 XX superoxide dismutase.  
 XX Example 1; Page 13; 28pp; Japanese.  
 XX The present invention describes an amyotrophic lateral sclerosis (ALS)  
 CC model rat. Also described: (1) a transgenic rat or its progeny having a  
 CC DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)  
 CC gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD  
 CC gene sequence. The transgenic rat can be used in the investigation of the  
 CC pathology and the onset mechanism of ALS. The present sequence represents  
 CC a PCR primer which is used in an example from the present invention  
 XX  
 XX Sequence 19 BP; 5 A; 4 C; 7 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.2%; Score 19; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 69;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 547 GTCGTAGGCCCTTAATC 565  
 DB 19 GTCGTAGGCCCTTAATC 1  
 RESULT 119  
 ADQ80680  
 ID ADQ80680 standard; DNA; 19 BP.  
 XX  
 AC ADQ80680;  
 XX  
 DT 21-OCT-2004 (first entry)  
 XX  
 DE Human cytosolic superoxide dismutase (SOD)1 RT-PCR primer, hSODC-sense.  
 XX  
 KW Survival; neuron; tyrosine hydroxylase; tyrosine 3-monooxygenase; TH;  
 KW anti-apoptotic; Bcl-XL; neurological disorder; neuroprotective;  
 KW neurotrophic; antiparkinsonian; transplantation; drug screening;  
 KW gene profiling; CNS disorder; neurodegenerative disease; primer; ss;  
 KW hSOD1; RT-PCR; human.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004062554-A2.  
 XX  
 PD 29-JUL-2004.  
 XX  
 PF 07-JAN-2004; 2004WO-DK000008.  
 XX  
 XX 08-JAN-2003; 2003US-0438719P.  
 PR 11-APR-2003; 2003DK-00000581.  
 PR 22-APR-2003; 2003US-0464546P.  
 XX  
 XX (NSGE-) NSGENE AS.  
 PA  
 XX Martinez-Serrano A, Liste I, Villa A;  
 XX WPI; 2004-544027/52.  
 DR  
 XX Enhancing the survival of neurons or cells expressing tyrosine  
 PT hydroxylase (TH) for treating neurodegenerative disorders, comprises

PT contacting neurons or TH expressing cells with Bcl-XL or its functional  
 PT equivalent.  
 XX  
 PS Example 2; Page 42; 108pp; English.  
 XX  
 CC The invention relates to a novel method for enhancing the survival of  
 CC neurons and/or of cells expressing tyrosine hydroxylase (EC 1.14.16.2 -  
 CC Tyrosine 3-monooxygenase) (TH + ). The method comprises contacting a  
 CC population of cells with Bcl-XL or its functional equivalent, where the  
 CC population of cells is selected from: neurons or cells capable of  
 CC differentiating into neurons; or TH expressing cells or cells capable of  
 CC differentiating into TH expressing cells. The invention further  
 CC comprises: a composition of cells obtainable by the method above; a  
 CC composition of isolated mammalian cells overexpressing the anti-apoptotic  
 CC Bcl-XL protein; a neural progenitor cell; a differentiated dopaminergic  
 CC neuron; an implantable cell culture device comprising: a semi-permeable  
 CC membrane permitting the diffusion of a biologically active protein  
 CC through it; and a composition of cells selected from above; a lentiviral  
 CC vector particle being produced based on a lentiviral transfer vector;  
 CC enhancing the survival of TH + cells in vivo; a retroviral particle being  
 CC produced based on a retroviral transfer vector; enhancing the survival of  
 CC in vivo differentiated dopaminergic neurons; a packaging cell line  
 CC capable of producing an infective vector particle; a packaging cell line  
 CC capable of producing an infective vector particle; treatment of a  
 CC neurological disorder; a fusion protein comprising the Bcl-XL sequence  
 CC comprising 233 amino acids ADQ80670 or its functional equivalent and a  
 CC membrane translocation signal; an expression vector comprising a  
 CC polynucleotide sequence coding for the fusion protein and a promoter  
 CC sequence capable of directing the expression of the fusion protein in a  
 CC host cell; a host cell comprising the expression vector; and producing  
 CC the fusion protein. The compositions of the invention have  
 CC neuroprotective, neurotrophic, and antiparkinsonian activities. The cells  
 CC are useful for transplantation, drug screening, gene profiling, or for  
 CC the preparation of a medicament useful for the treatment of a CNS  
 CC disorder. The CNS disorder is a neurodegenerative disease involving  
 CC lesioned and traumatic neurons, including traumatic lesions of peripheral  
 CC nerves, the medulla, the spinal chord, cerebral ischaemic neuronal  
 CC damage, neuropathy, peripheral neuropathy, Alzheimer's disease,  
 CC Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,  
 CC or memory impairment connected to dementia. The method is useful for  
 CC enhancing the survival of neurons and/or of cells expressing tyrosine  
 CC hydroxylase for the treatment of neurodegenerative disorders. This  
 CC polynucleotide sequence represents a primer used in the exemplification  
 CC of the invention.  
 XX  
 SQ Sequence 19 BP; 3 A; 4 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 2.2%; Score 19; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 69;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 48 GCGTGGCCTAGCGAGTTAT 66  
 DB 1 GCGTGGCCTAGCGAGTTAT 19  
 RESULT 120  
 AD52425/c  
 ID AD52425 standard; RNA; 23 BP.  
 XX  
 AC AD52425;  
 XX  
 DT 29-JAN-2004 (first entry)  
 XX  
 DE siRNA pl1 sequence #2 for wild-type human SOD1 gene.  
 XX  
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;  
 KW haemostatic; virucide; antibacterial; neuroprotective; neurotrophic;

KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW small interfering RNA; siRNA; ss.  
 XX Homo sapiens.  
 PN US2003180756-A1.  
 XX 25-SEP-2003.  
 XX  
 PF 21-NOV-2002; 2002US-00301516.  
 XX  
 PR 21-MAR-2002; 2002US-0366478P.  
 XX  
 PA (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 XX  
 PI Shi Y, Sui G;  
 XX WPI; 2003-852231/79.  
 XX  
 XX New nucleic acids, useful for inhibiting the synthesis of a target  
 PT protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX  
 XX Example 6; Fig 5A; 38pp; English.  
 XX  
 CC The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a small interfering RNA (siRNA) that can  
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.  
 XX  
 SQ Sequence 23 BP; 5 A; 8 C; 2 G; 2 T; 4 U; 2 Other;  
 Query Match 2.2%; Score 19; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 310 TGGAGACTTGGGCAATGTG 328  
 Db 19 TGGAGACTTGGGCAATGTG 1  
 RESULT 121  
 ADE52424/c  
 ID ADE52424 standard; RNA; 23 BP.  
 XX  
 AC ADE52424;  
 XX  
 XX 29-JAN-2004 (first entry)  
 DT  
 XX siRNA p10 sequence #2 for wild-type human SOD1 gene.  
 DE  
 XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;

KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;  
 KW haemostatic; viricide; antibacterial; neuroprotective; nootropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 XX small interfering RNA; siRNA; ss.  
 XX Homo sapiens.  
 OS  
 XX US2003180756-A1.  
 PN  
 XX 25-SEP-2003.  
 XX  
 PF 21-NOV-2002; 2002US-00301516.  
 XX  
 PR 21-MAR-2002; 2002US-0366478P.  
 XX  
 PA (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 XX  
 PI Shi Y, Sui G;  
 XX WPI; 2003-852231/79.  
 XX  
 XX New nucleic acids, useful for inhibiting the synthesis of a target  
 PT protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX  
 XX Example 6; Fig 5A; 38pp; English.  
 XX  
 CC The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a small interfering RNA (siRNA) that can  
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.  
 XX  
 SQ Sequence 23 BP; 4 A; 8 C; 2 G; 2 T; 5 U; 2 Other;  
 Query Match 2.2%; Score 19; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 311 GGAGACTTGGGCAATGTGA 329  
 Db 19 GGAGACTTGGGCAATGTGA 1  
 RESULT 122  
 ADE52423/c  
 ID ADE52423 standard; RNA; 23 BP.  
 XX  
 AC ADE52423;  
 XX  
 XX 29-JAN-2004 (first entry)  
 DT  
 XX siRNA p9 sequence #2 for wild-type human SOD1 gene.  
 DE

XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytoskeletal;  
 KW haemostatic; virucide; antibacterial; neuroprotective; neurotropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW small interfering RNA; siRNA; ss.  
 XX Homo sapiens.  
 XX US2003180756-A1.  
 XX 25-SEP-2003.  
 PD 21-NOV-2002; 2002US-00301516.  
 XX 21-MAR-2002; 2002US-0366478P.  
 XX (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 XX Shi Y, Sui G;  
 PI WPI; 2003-852231/79.  
 DR New nucleic acids, useful for inhibiting the synthesis of a target  
 XX protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX Example 6; Fig 5A; 38pp; English.  
 PS The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a small interfering RNA (siRNA) that can  
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.  
 XX Sequence 23 BP; 4 A; 7 C; 3 G; 2 T; 5 U; 2 Other;  
 SQ Query Match 2.2%; Score 19; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 312 GAGACTTGGCAATGTGAC 330  
 Db 19 GAGACTTGGCAATGTGAC 1  
 RESULT 123  
 AA01384/C  
 ID AA01384 standard; DNA; 20 BP.  
 XX  
 AC AA01384;

XX 23-MAR-1998 (first entry)  
 XX Superoxide dismutase 1 PCR primer for universal mammalian STS's.  
 DE PCR primer; polymerase chain reaction; amplification; UM-STs;  
 KW universal mammalian sequence tagged site; genomic map; clone; ss.  
 KW Synthetic.  
 OS WO9731012-A1.  
 PN 28-AUG-1997.  
 XX 18-FEB-1997; 97WO-US002403.  
 XX 22-FEB-1996; 96US-0012061P.  
 XX (UNMI ) UNIV MICHIGAN.  
 PA (UNMS ) UNIV MICHIGAN STATE.  
 XX Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;  
 PI WPI; 1997-435083/40.  
 DR New oligonucleotide primers amplifying gene regions conserved among  
 XX mammals - useful for developing genomic maps, isolating clones and making  
 PT cross-species comparisons.  
 XX Claim 2; Page 13; 26pp; English.  
 PS The present sequence represents a specifically claimed oligonucleotide  
 CC PCR primer. The oligonucleotide can be used for polymerase chain reaction  
 CC (PCR) amplification of DNA, specifically regions of specific genes that  
 CC are conserved among mammalian species, i.e. pairs of oligonucleotides  
 CC from the present specification represent universal mammalian sequence-  
 CC tagged site (UM-STs) primers. The primers are used to develop genomic  
 CC maps, to isolate clones from libraries, to make cross-species comparisons  
 CC and to develop additional genetic markers. UM-STs allow genomic  
 CC comparisons to be made between more species  
 XX Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;  
 SQ Query Match 2.1%; Score 18.4; DB 1; Length 20;  
 Best Local Similarity 95.0%; Pred. No. 82;  
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 OY 302 AGGCATGTGGAGACTTGGG 321  
 Db 20 AGGCATGTGGAGACTTGGG 1  
 RESULT 124  
 ADT66494/C  
 ID ADT66494 standard; DNA; 18 BP.  
 XX  
 AC ADT66494;  
 XX 16-DEC-2004 (first entry)  
 DT PCR primer for CuZn SOD SEQ ID NO:8.  
 DE ss; primer; PCR; CuZn SOD; cancer; antioxidant gene expression analysis;  
 KW irradiation therapy.  
 KW Synthetic.  
 OS KR2004025183-A.  
 XX 24-MAR-2004.  
 XX 18-SEP-2002; 2002KR-00057027.  
 XX

PR 18-SEP-2002; 2002KR-00057027.  
 XX (PARK/) PARK Y M.  
 PA Choi EM, Han MY, Hwang SY, Jun HJ, Kim YH, Park JH, Park YM;  
 PI WPI; 2004-495260/47.  
 XX Method and DNA chip for monitoring response of cancer patients to  
 PT irradiation therapy using antioxidant gene expression analysis.  
 PT Claim 2; SEQ ID NO 8; 22pp; Korean.  
 PS  
 XX The invention relates to a novel method and a DNA chip for monitoring a  
 CC response of cancer patients to irradiation therapy using antioxidant gene  
 CC expression analysis, thereby accurately anticipating the response to  
 CC irradiation therapy and minimizing adverse side-effects thereof. A method  
 CC for monitoring a response of cancer patients to irradiation therapy  
 CC comprises: collecting a peripheral blood cell from a human; irradiating  
 CC the peripheral blood cell; extracting RNA according to the time period;  
 CC preparing DNA from the RNA; hybridizing the DNA with antioxidant enzyme  
 CC cDNA; amplifying the hybridized DNA using one or more pairs of primers  
 CC selected from: DNA fragments of ADT66487 and ADT66488; DNA fragments of  
 CC ADT66489 and ADT66490; DNA fragments of ADT66491 and ADT66492; DNA  
 CC fragments of ADT66493 and ADT66494; DNA fragments of ADT66495 and  
 CC ADT66496; and DNA fragments of ADT66497 and ADT66498; and analyzing  
 CC expression pattern of the amplified DNA according to the time period. A  
 CC DNA chip for monitoring a response of cancer patients to irradiation  
 CC therapy amplifies one or more antioxidant genes corresponding to the  
 CC following DNA fragments: DNA fragments of ADT66487 and ADT66488 - GPX1;  
 CC DNA fragments of ADT66489 and ADT66490 - gamma-GCS; DNA fragments of  
 CC ADT66491 and ADT66492 - catalase; DNA fragments of ADT66493 and ADT66494  
 CC - CuZn SOD; DNA fragments of ADT66495 and ADT66496 - Mn SOD; and DNA  
 CC fragments of ADT66497 and ADT66498 - Prx II. The present sequence  
 CC represents a PCR primer of the invention.  
 XX  
 SQ Sequence 18 BP; 4 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 2.1%; Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 79;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 509 GTAAATGGGATCGCCCA 526  
 DB 18 GTAAATGGGATCGCCCA 1  
 RESULT 125  
 ADE52401  
 ID ADE52401 standard; DNA; 19 BP.  
 XX  
 AC ADE52401;  
 XX  
 DT 29-JAN-2004 (first entry)  
 XX  
 DE Target DNA sequence #1 for human SOD1 G256C (Gly85Arg) mutant gene.  
 XX  
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;  
 KW haemostatic; virucide; antibacterial; neuroprotective; nootropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW G256C mutant; Gly85Arg mutant; ss.  
 XX Synthetic.  
 OS Homo sapiens.  
 XX  
 XX US2003180756-A1.  
 XX  
 PD 25-SEP-2003.

XX 21-NOV-2002; 2002US-00301516.  
 PF  
 XX 21-MAR-2002; 2002US-0366478P.  
 PR  
 XX (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 PI Shi Y, Sui G;  
 XX WPI; 2003-852231/79.  
 DR  
 XX New nucleic acids, useful for inhibiting the synthesis of a target  
 PT protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX  
 PS Disclosure; Page 16; 38pp; English.  
 XX  
 CC The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acid and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a target DNA sequence that can be used to  
 CC inhibit expression of the human superoxide dismutase 1 (SOD1) G256C  
 CC (Gly85Arg) mutant gene.  
 XX  
 SQ Sequence 19 BP; 5 A; 3 C; 7 G; 4 T; 0 U; 0 Other;  
 Query Match 2.0%; Score 17.4; DB 1; Length 19;  
 Best Local Similarity 94.7%; Pred. No. 94;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 311 GGAGACTTGGCAATGTGA 329  
 DB 1 GGAGACTTGGCAATGTGA 19  
 RESULT 126  
 ADE52402/c  
 ID ADE52402 standard; DNA; 19 BP.  
 XX  
 AC ADE52402;  
 XX  
 DT 29-JAN-2004 (first entry)  
 XX  
 DE Target DNA sequence #2 for human SOD1 G256C (Gly85Arg) mutant gene.  
 XX  
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;  
 KW haemostatic; virucide; antibacterial; neuroprotective; nootropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW G256C mutant; Gly85Arg mutant; ss.



OS Synthetic.  
 OS Homo sapiens.  
 PN US2003180756-A1.  
 XX 25-SEP-2003.  
 PD 21-NOV-2002; 2002US-00301516.  
 XX 21-MAR-2002; 2002US-0366478P.  
 PR (SHIY/) SHI Y.  
 PA (SUIG/) SUI G.  
 XX Shi Y, Sui G;  
 XX WPI; 2003-852231/79.  
 DR New nucleic acids, useful for inhibiting the synthesis of a target  
 XX protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX Disclosure; Page 16; 38pp; English.  
 PS The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC transcribed from the nucleic acid can inhibit expression of the target  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a target DNA sequence that can be used to  
 CC inhibit expression of the human superoxide dismutase 1 (SOD1) G256C  
 CC (Gly85Arg) mutant gene.  
 XX Sequence 19 BP; 4 A; 7 C; 3 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 2.0%; Score 17.4; DB 1; Length 19;  
 Best Local Similarity 94.7%; Pred. No. 94;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 311 GGAGACTTGGCAATGTGA 329  
 DB 19 CGAGACTTGGCAATGTGA 1  
 RESULT 127  
 ABZ91893  
 ID ABZ91893 standard; DNA; 20 BP.  
 XX ABZ91893;  
 XX 17-OCT-2003 (first entry)  
 DT Human oligonucleotide sequence.  
 DE Human; antisense; lung dysfunction; nasal airway dysfunction;  
 XX Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;

KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 OS Homo sapiens.  
 XX WO200285308-A2.  
 PN 31-OCT-2002.  
 XX 23-APR-2002; 2002WO-US013135.  
 XX 24-APR-2001; 2001US-0286137P.  
 PR (EPIG-) EPICENESIS PHARM INC.  
 XX NYce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 DR Pharmaceutical composition for treating ailments associated with impaired  
 XX respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX Disclosure; SEQ ID NO 7135; 872pp; English.  
 PS The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 20 BP; 10 A; 2 C; 5 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 2.0%; Score 17.4; DB 1; Length 20;  
 Best Local Similarity 94.7%; Pred. No. 99;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 131 CAGAAGGAAAGTAATGGAC 149  
 DB 1 CAGAAGGAAAGTAATGGAC 19  
 RESULT 128  
 ABD28123  
 ID ABD28123 standard; DNA; 20 BP.  
 XX ABD28123;  
 XX 29-JUL-2004 (first entry)  
 DT AA156940-derived oligonucleotide SEQ ID 7135.  
 DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung cancer;  
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;



KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.  
XX  
OS Homo sapiens.  
XX  
PN WO200285309-A2.  
XX  
XX 31-OCT-2002.  
XX  
XX 23-APR-2002; 2002WO-US013143.  
XX  
XX 24-APR-2001; 2001US-0286036P.  
XX  
XX (EPIG-) EPIGENESIS PHARM INC.  
XX  
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
PI  
DR WPI; 2003-093058/08.  
XX  
XX Pharmaceutical composition for treating asthma, has antisense  
PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX  
XX Claim 15; SEQ ID NO 7135; 763pp; English.  
XX  
XX This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic, is a  
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction,  
CC inflammation, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc. tissue environment and thereby, to  
CC prevent any unwanted effects due to it  
XX  
SQ Sequence 20 BP; 10 A; 2 C; 5 G; 3 T; 0 U; 0 Other;  
Query Match 2.0%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 94.78; Pred. No. 99;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 131 CAGAAGGAAGTAATGAC 149  
||||| |||||  
Db 1 CAGAAGGAAGTAATGAC 19  
RESULT 129  
ABS98129/c

ABS98129 standard; DNA; 21 BP.  
ABS98129;  
XX  
DT 23-DEC-2002 (first entry)  
XX  
DE Human multidrug resistance gene polymorphic sequence #31.  
XX  
XX Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;  
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;  
KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;  
KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;  
KW cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;  
KW epoxide hydrolase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;  
KW glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;  
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;  
KW NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;  
KW UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;  
KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;  
KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;  
KW multidrug resistance associated protein 3; cancer; prostate;  
KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;  
KW altered drug metabolism; cardiovascular function; colorectal tumour;  
KW central nervous system; pulmonary; immunological; SNP;  
KW single nucleotide polymorphism.  
XX  
OS Homo sapiens.  
XX  
PN WO200257410-A2.  
XX  
XX 25-JUL-2002.  
XX  
XX 28-NOV-2001; 2001WO-US044838.  
XX  
XX 28-NOV-2000; 2000US-00724389.  
XX  
XX (DNAS-) DNA SCI LAB INC.  
XX  
XX Guida M, Hall J;  
XX  
XX WPI; 2002-698522/75.  
XX  
XX Isolated nucleic acid molecules having polymorphisms in known human genes  
XX e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers  
XX for locating, identifying and characterizing the genes responsible for  
XX disorder-related traits.  
XX  
XX Example 22; Page 144; 714pp; English.  
XX  
XX This invention relates to the sequence of an isolated nucleic acid  
XX molecule comprising at least one base variation from that of a known  
XX human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),  
XX cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),  
XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator  
XX (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding  
XX inhibitor (DBI), epoxide hydrolase 2 (EPHX2), 5-lipoxygenase activating  
XX protein (FLAP), glutathione-S-transferase 12 (GSTI2), histamine-N-methyl  
XX transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-methyl  
XX transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),  
XX sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4  
XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl  
XX transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1  
XX (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3  
XX (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic  
XX receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.  
XX The polymorphisms in the human genes cited in the invention are useful as  
XX genetic linkage markers for locating and characterising the genes that  
XX are responsible for specific traits within the genome and eventually  
XX identifying the genes responsible for a variety of disorder-related  
XX traits as a result of their e.g., overexpression, constitutive  
XX expression, mutation or underexpression, which may be used in diagnosing  
XX and/or treating the disorders. The nucleic acid molecules comprising the  
XX polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,

CC ARNT, EPHX2, GST12, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,  
CC MDR1 and/or MDR3 are useful for screening individuals for altered drug  
CC metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2,  
CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for  
CC susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are  
CC used to screen for altered cardiovascular function, in COX2 for altered  
CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central  
CC nervous system function, in FLAP and NNMT for altered pulmonary,  
CC immunological or haematological function, in KLK2 for altered serine  
CC protease activity in the prostate, in LTF for altered immunological or  
CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and  
CC peripheral nervous system function. The present sequence represents a  
CC polymorphic DNA sequence of the invention  
XX  
SQ Sequence 21 BP; 7 A; 6 C; 4 G; 4 T; 0 U; 0 Other;  
  
Query Match 2.0%; Score 17.4; DB 1; Length 21;  
Best Local Similarity 94.7%; Pred. No. 1e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 318 TGGGCAATGTGACTGTCTGA 336  
DB 21 TTGCAATGTGACTGTCTGA 3  
  
RESULT 130  
ABT36210/c  
ID ABT36210 standard; DNA; 17 BP.  
XX  
AC ABT36210;  
XX  
DT 12-JUN-2003 (first entry)  
DE Tumour suppression related human fukutin oligo SEQ ID No 1847.  
XX  
KW Cytostatic; virucide; neuroprotective; nontropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; protein chip; gene therapy; tumour suppression;  
KW human fukutin; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2003025175-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004208.  
XX  
PR 17-SEP-2001; 2001PR-00011978.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
XX WPI; 2003-313353/30.  
XX  
XX New isolated nucleic acid, useful for treating viral diseases associated  
XX with tumors and cell degeneration, also related polypeptides, antibodies  
XX and transfected cells.  
XX  
XX Disclosure; Page 249; 720pp; French.  
XX  
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
XX given in the specification, a sequence containing at least 15 consecutive  
XX nucleotides from the 17 mer sequence, a sequence with, after optimal  
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
XX hybridizes to them under highly stringent conditions, or the complement  
XX of any of them, or the corresponding RNA. The novel isolated nucleic  
XX acids of the invention are useful as probes and primers for detecting,  
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
XX component of a gene chip, in vitro as (anti)sense reagents, and for  
XX production of recombinant polypeptides. Any of the nucleic acids,  
XX polypeptides, vectors containing the nucleic acids, cells containing the  
XX polypeptides, vectors containing the nucleic acids, cells containing the

CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterised by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX  
SQ Sequence 17 BP; 7 A; 4 C; 2 G; 4 T; 0 U; 0 Other;  
  
Query Match 1.9%; Score 17; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 91;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 363 TTGAAGATTCTGTGATC 379  
DB 17 TTGAAGATTCTGTGATC 1  
  
RESULT 131  
ABT39565  
ID ABT39565 standard; DNA; 17 BP.  
XX  
AC ABT39565;  
XX  
DT 12-JUN-2003 (first entry)  
DE Tumour suppression related human fukutin oligo SEQ ID No 5202.  
XX  
KW Cytostatic; virucide; neuroprotective; nontropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; protein chip; gene therapy; tumour suppression;  
KW human fukutin; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2003025175-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004208.  
XX  
PR 17-SEP-2001; 2001PR-00011978.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
XX WPI; 2003-313353/30.  
XX  
XX New isolated nucleic acid, useful for treating viral diseases associated  
XX with tumors and cell degeneration, also related polypeptides, antibodies  
XX and transfected cells.  
XX  
XX Disclosure; Page 642; 720pp; French.  
XX  
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
XX given in the specification, a sequence containing at least 15 consecutive  
XX nucleotides from the 17 mer sequence, a sequence with, after optimal  
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
XX hybridizes to them under highly stringent conditions, or the complement  
XX of any of them, or the corresponding RNA. The novel isolated nucleic  
XX acids of the invention are useful as probes and primers for detecting,  
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
XX component of a gene chip, in vitro as (anti)sense reagents, and for  
XX production of recombinant polypeptides. Any of the nucleic acids,  
XX polypeptides, vectors containing the nucleic acids, cells containing the  
XX vector or antibodies directed against the polypeptides, cells containing the  
XX preparation of pharmaceuticals for prevention and/or treatment of viral

CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 690 GATCACTTGGAGATT 706  
 Db 1 GATCACTTGGAGATT 17  
 RESULT 132  
 ADI49574  
 ID ADI49574 standard; DNA; 17 BP.  
 AC ADI49574;  
 XX  
 DT 15-APR-2004 (first entry)  
 XX Human tumour suppression/reversion-related DNA sequence SeqID2077.  
 DE  
 XX tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW cytostatic; virucide; neuroprotective; nontropic; neuroleptic; probe;  
 KW primer; PCR; gene chip; antisense; viral disease; tumour;  
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
 XX Homo sapiens.  
 OS  
 XX WO2003025177-A2.  
 PN  
 XX 27-MAR-2003.  
 PD  
 XX 17-SEP-2002; 2002WO-IB004523.  
 PF  
 XX 17-SEP-2001; 2001FR-00011980.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 PI Telerman A, Anson R, Tuijnder M;  
 XX WPI; 2003-313354/30.  
 DR  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; SEQ ID NO 2077; 30pp; French.  
 XX  
 CC This invention relates to novel isolated nucleic acid sequences involved  
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
 CC and/or resistance to viruses. The invention may be useful for the  
 CC development of compounds with a cytostatic, virucide, neuroprotective,  
 CC nontropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, identifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development and/or treatment of viral diseases  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/publishedpct\_sequences  
 XX  
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 690 GATCACTTGGAGATT 706  
 Db 1 GATCACTTGGAGATT 17  
 RESULT 133  
 ADI52307  
 ID ADI52307 standard; DNA; 17 BP.  
 AC ADI52307;  
 XX  
 DT 15-APR-2004 (first entry)  
 XX Human tumour suppression/reversion-related DNA sequence SeqID4810.  
 DE  
 XX tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW cytostatic; virucide; neuroprotective; nontropic; neuroleptic; probe;  
 KW primer; PCR; gene chip; antisense; viral disease; tumour;  
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
 XX Homo sapiens.  
 OS  
 XX WO2003025177-A2.  
 PN  
 XX 27-MAR-2003.  
 PD  
 XX 17-SEP-2002; 2002WO-IB004523.  
 PF  
 XX 17-SEP-2001; 2001FR-00011980.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 PI Telerman A, Anson R, Tuijnder M;  
 XX WPI; 2003-313354/30.  
 DR  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; SEQ ID NO 4810; 30pp; French.  
 XX  
 CC This invention relates to novel isolated nucleic acid sequences involved  
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
 CC and/or resistance to viruses. The invention may be useful for the  
 CC development of compounds with a cytostatic, virucide, neuroprotective,  
 CC nontropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, identifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development and/or treatment of viral diseases  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences  
 XX  
 SQ Sequence 17 BP; 7 A; 5 C; 2 G; 3 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAACAT 533  
 DB 1 GATCGCCCAATAACAT 17

RESULT 134  
 ACC51634  
 ID ACC51634 standard; DNA; 17 BP.  
 XX  
 AC ACC51634;  
 XX  
 DT 27-JUN-2003 (first entry)  
 XX  
 DE Human tumour suppressor sequence #2100.  
 XX  
 KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;  
 KW tumour regression; apoptosis; virus resistance; diagnosis;  
 KW cellular degeneration.  
 XX  
 OS Homo sapiens.  
 XX  
 FN FR2826373-A1.  
 XX  
 PD 27-DEC-2002.  
 XX  
 PF 20-JUN-2001; 2001FR-00008139.  
 XX  
 PR 20-JUN-2001; 2001FR-00008139.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB SA.  
 XX  
 PI Tuijnder M, Telerman A, Amson R;  
 XX  
 DR WPI; 2003-250498/25.  
 XX  
 PT New nucleic acid sequences associated with tumor suppression, regression,  
 PT apoptosis or virus resistance are useful to diagnose and treat viral  
 PT disease, development of tumor cells and cell degeneration.  
 XX  
 PS Claim 1; Page 525; 798pp; French.  
 XX  
 CC This sequence represents an isolated nucleic acid sequence associated  
 CC with tumour suppression or regression, apoptosis or virus resistance. The  
 CC invention relates to these sequences or sequences having at least 80%  
 CC identity to them, and polypeptides encoded by the sequences or  
 CC polypeptides having 80% identity to the polypeptide sequences. The  
 CC invention is used to diagnose or treat viral disease or disease  
 CC characterized by development of tumour cells or cellular degeneration  
 XX  
 SQ Sequence 17 BP; 7 A; 5 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 1.9%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAACAT 533  
 DB 1 GATCGCCCAATAACAT 17

RESULT 135  
 ACC51634  
 ID ACC51634 standard; DNA; 17 BP.  
 XX  
 AC ACC51634;  
 XX  
 DT 27-JUN-2003 (first entry)  
 XX  
 DE Human tumour suppressor sequence #401.  
 XX  
 KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;  
 KW tumour regression; apoptosis; virus resistance; diagnosis;  
 KW cellular degeneration.

XX Homo sapiens.  
 OS  
 XX FR2826373-A1.  
 FN  
 XX 27-DEC-2002.  
 PD  
 XX 20-JUN-2001; 2001FR-00008139.  
 PF  
 XX 20-JUN-2001; 2001FR-00008139.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB SA.  
 PA  
 XX Tuijnder M, Telerman A, Amson R;  
 PI  
 XX WPI; 2003-250498/25.  
 DR  
 XX New nucleic acid sequences associated with tumor suppression, regression,  
 PT apoptosis or virus resistance are useful to diagnose and treat viral  
 PT disease, development of tumor cells and cell degeneration.  
 PT  
 XX  
 PS Claim 1; Page 133; 798pp; French.  
 XX  
 CC This sequence represents an isolated nucleic acid sequence associated  
 CC with tumour suppression or regression, apoptosis or virus resistance. The  
 CC invention relates to these sequences or sequences having at least 80%  
 CC identity to them, and polypeptides encoded by the sequences or  
 CC polypeptides having 80% identity to the polypeptide sequences. The  
 CC invention is used to diagnose or treat viral disease or disease  
 CC characterized by development of tumour cells or cellular degeneration  
 CC  
 XX  
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCAGCTTGGAGATT 706  
 DB 1 GATCAGCTTGGAGATT 17

RESULT 136  
 ABQ75416  
 ID ABQ75416 standard; DNA; 19 BP.  
 XX  
 AC ABQ75416;  
 XX  
 DT 06-NOV-2002 (first entry)  
 XX  
 DE CuZn superoxide dismutase (CuZn-SOD) PCR primer SEQ ID NO:13.  
 XX  
 KW AOP-1; cardiant; nootropic; neuroprotective; antirheumatic; nephrotropic;  
 KW hepatotropic; heart disease; neurodegenerative disease; rheumatism;  
 KW kidney disease; liver disease; CuZn superoxide dismutase; CuZn-SOD;  
 KW PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS  
 XX WO200264169-A1.  
 PN  
 XX 22-AUG-2002.  
 PD  
 XX 18-FEB-2002; 2002WO-JP001358.  
 PF  
 XX 16-FEB-2001; 2001JP-00041003.  
 PR  
 XX (SUNR ) SUNTORY LTD.  
 XX (SUNR ) SUNTORY BIOMEDICAL RES LTD.  
 PA  
 XX Hattori F, Sugimura K, Furuya M;  
 PI  
 XX WPI; 2002-657567/70.  
 DR

XX Remedies for treating diseases associated with a decrease in expression  
PT of AOP-1 gene or AOP-1, also drug screening with the protein and encoded  
PT gene, applicable e.g. in heart diseases, neurodegenerative diseases and  
PT rheumatism.  
XX Example 3; Page 31; 96pp; Japanese.  
XX  
CC The present invention describes a method for preventing or treating  
CC diseases associated with a decrease in the expression of AOP-1 gene or  
CC AOP-1 comprises: (a) transferring e.g. a nucleic acid encoding AOP-1 gene  
CC or; (b) administering a substance enhancing the expression of AOP-1  
CC gene, a substance enhancing production of AOP-1 or a substance enhancing  
CC the function of AOP-1. AOP-1 has cardiant, nootropic, neuroprotective,  
CC antirheumatic, nephrotropic and hepatotropic activities. The method can  
CC be used for treating diseases associated with a decrease in the  
CC expression of AOP-1 gene or AOP-1, including heart diseases, liver  
CC neurodegenerative diseases, rheumatism, kidney diseases and liver  
CC diseases. The present sequence represents a PCR primer for CuZn  
CC superoxide dismutase (CuZn-SOD), which is used in an example from the  
CC present invention  
XX  
XX Sequence 19 BP; 6 A; 2 C; 9 G; 2 T; 0 U; 0 Other;  
SQ  
Query Match 1.9%; Score 17; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 292 GGATGAAGAGGCGCATG 308  
Db 3 GGATGAAGAGGCGCATG 19  
  
RESULT 137  
AAQ67479/C  
ID AAQ67479 standard; DNA; 21 BP.  
XX  
AC AAQ67479;  
XX  
XX 25-MAR-2003 (revised)  
DT 31-MAY-1995 (first entry)  
XX  
XX PCR primer for human SOD1 exon 2.  
DE  
XX Human superoxide dismutase; hSOD1; neurodegeneration;  
KW Alzheimer's disease; Parkinson's disease; Huntington's disease;  
KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;  
KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;  
KW SSCP analysis; ss.  
XX  
XX Synthetic.  
OS  
XX WO9419493-A1.  
PN  
XX 01-SEP-1994.  
PD  
XX 28-FEB-1994; 94WO-US002089.  
XX  
XX 26-FEB-1993; 93US-00023980.  
PR  
XX (GEO ) GEN HOSPITAL CORP.  
PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
XX  
XX Brown R, Horvitz HR, Rosen DR;  
PI  
XX WPI; 1994-294353/36.  
DR  
XX Diagnosis, treatment and prevention of diseases of cell death - e.g.  
PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD  
PT activity.  
XX  
XX Claim 8; Fig 5; 94pp; English.  
PS  
XX

CC The presence of a mutation in a gene encoding a superoxide dismutase  
CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a  
CC cell death disease, specifically a neurodegenerative disease. The DNA can  
CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by  
CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers  
CC which are useful for diagnosis of diseases linked to SOD1 mutations.  
CC (Updated on 25-MAR-2003 to correct PN field.)  
XX  
XX Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;  
SQ  
Query Match 1.9%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 218 GGAGATAATACAGCAGG 234  
Db 21 GGAGATAATACAGCAGG 5  
  
RESULT 138  
AAV73829/C  
ID AAV73829 standard; DNA; 21 BP.  
XX  
AC AAV73829;  
XX  
XX 24-FEB-1999 (first entry)  
DT  
XX Human SOD1 exon 2 PCR primer #2.  
DE  
XX SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;  
KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;  
KW familial; ALS; PCR primer; ss.  
XX  
XX Synthetic.  
OS  
XX Homo sapiens.  
XX  
XX US5849290-A.  
PN  
XX 15-DEC-1998.  
PD  
XX 07-JUN-1995; 95US-00486953.  
XX  
XX 26-FEB-1993; 93US-00023980.  
PR  
XX 28-FEB-1994; 94US-00204052.  
PR  
XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
PA (GEO ) GEN HOSPITAL CORP.  
XX  
XX Rosen DR, Brown R, Horvitz HR;  
PI  
XX WPI; 1999-069657/06.  
DR  
XX  
XX Treatment of neurodegenerative disease - by administering super-oxide  
PT dismutase.  
PT  
XX Disclosure; Fig 5; 53pp; English.  
PS  
XX AAV73826-V73835 are PCR primers used in the amplification of a novel  
XX human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.  
CC This protein can be used in a method for treating a neurodegenerative  
CC disease particularly familial amyotrophic lateral sclerosis (ALS)  
CC  
XX  
XX Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;  
SQ  
Query Match 1.9%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 218 GGAGATAATACAGCAGG 234  
Db 21 GGAGATAATACAGCAGG 5

```
RESULT 139
AD055692/c
ID ADO55692 standard; DNA; 21 BP.
XX
XX
AC ADO55692;
XX
XX DT 15-JUL-2004 (first entry)
XX
XX DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #4.
XX
XX KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;
KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
XX
XX OS Homo sapiens.
XX
XX PN US6723893-B1.
XX
XX PD 20-APR-2004.
XX
XX PF 28-FEB-1994; 94US-00204052.
XX
XX PR 26-FEB-1993; 93US-00023980.
XX
XX PA (NASI ) MASSACHUSETTS INST TECHNOLOGY.
PA (GEO ) GEN HOSPITAL CORP INC.
XX
XX PI Brown R, Horvitz HR, Rosen DR;
XX
XX DR WPI; 2004-326924/30.
XX
XX PT New transgenic mouse having somatic and germ cells containing a transgene
PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
PT polypeptide, useful for research or drug development.
XX
XX PS Disclosure; SEQ ID NO 7; 54pp; English.
XX
XX CC The invention relates to a transgenic mouse having somatic and germ cells
CC containing a transgene encoding and expressing a neurodegenerative
CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
CC method of diagnosing an increased likelihood of developing cell death
CC disease in a patient, a kit for the diagnosis of cell death disease in a
CC patient, a method of treating a patient with a disease involving a mutant
CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
CC of treating a patient with a neoplasm, a bacterial or yeast cell
CC containing a purified nucleic acid derived from a FALS gene, a purified
CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
CC expression of the mutant polypeptide is under the regulation of the wild-
CC type promoter. The transgenic mouse is useful for research or drug
CC development. This sequence represents a PCR primer used to amplify SOD1
CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
CC polypeptide.
XX
XX SQ Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
DB 21 GGAGATAATACAGCAGG 5
RESULT 140
AD055743/c
ID ADO55743 standard; DNA; 21 BP.
XX
XX AC ADO55743;
XX
XX DT 15-JUL-2004 (first entry)
XX
XX DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #13.
XX
```

```
XX
KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;
KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
XX
XX OS Homo sapiens.
XX
XX PN US6723893-B1.
XX
XX PD 20-APR-2004.
XX
XX PF 28-FEB-1994; 94US-00204052.
XX
XX PR 26-FEB-1993; 93US-00023980.
XX
XX PA (NASI ) MASSACHUSETTS INST TECHNOLOGY.
PA (GEO ) GEN HOSPITAL CORP INC.
XX
XX PI Brown R, Horvitz HR, Rosen DR;
XX
XX DR WPI; 2004-326924/30.
XX
XX PT New transgenic mouse having somatic and germ cells containing a transgene
PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
PT polypeptide, useful for research or drug development.
XX
XX PS Example; Col 17-18; 54pp; English.
XX
XX CC The invention relates to a transgenic mouse having somatic and germ cells
CC containing a transgene encoding and expressing a neurodegenerative
CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
CC method of diagnosing an increased likelihood of developing cell death
CC disease in a patient, a kit for the diagnosis of cell death disease in a
CC patient, a method of treating a patient with a disease involving a mutant
CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
CC of treating a patient with a neoplasm, a bacterial or yeast cell
CC containing a purified nucleic acid derived from a FALS gene, a purified
CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
CC expression of the mutant polypeptide is under the regulation of the wild-
CC type promoter. The transgenic mouse is useful for research or drug
CC development. This sequence represents a PCR primer used to amplify SOD1
CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
CC polypeptide.
XX
XX SQ Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
DB 21 GGAGATAATACAGCAGG 5
RESULT 141
AAT38674/c
ID AAT38674 standard; DNA; 20 BP.
XX
XX AC AAT38674;
XX
XX DT 21-JUL-1997 (first entry)
XX
XX DE Mouse SOD-1 exon 4 PCR primer EH129r.
XX
XX KW Murine; mouse; amyloid; precursor; protein; APP; SOD-1; humanisation;
KW homozygous; heterozygous; human; Abeta; Swedish; familial; Alzheimer's;
KW disease; FAD; mutation; tool; model; elucidation; pathology;
KW symptomatology; screen; inhibition; transgenic;
KW polymerase chain reaction; primer; PCR; amplification; exon 4; ss.
XX
XX OS Synthetic.
XX
```

PN WO9634097-A1.  
 XX  
 PD 31-OCT-1996.  
 XX  
 PF 26-APR-1996; 96WO-US005824.  
 XX  
 PR 26-APR-1995; 95US-00429207.  
 PR 23-APR-1996; 96US-00636876.  
 XX  
 PA (CEPH-) CEPHALON INC.  
 XX  
 PS Scott RW, Reaume AG, Trusko SP, Siman R, Hoffman EK;  
 PI WPI; 1996-497629/49.  
 XX  
 DR Transgenic mice with humanised amyloid precursor protein gene - having at  
 PT least 1 Swedish FAD mutation, useful as tools or models to elucidate role  
 PT of human A-beta in Alzheimer's disease.  
 XX  
 PS Example 16; Page 68; 123pp; English.  
 XX  
 CC The present sequence is a primer for the PCR amplification of exon 4 of  
 CC the murine SOD-1 gene, which was used to distinguish SOD deficient mice  
 CC that have lost both or 1 copy of the SOD-1 gene. The SOD-1 deficient mice  
 CC were used in the preparation of mice homozygous or heterozygous for a  
 CC targeted amyloid precursor protein (APP) encoding gene, comprising a  
 CC human Abeta peptide encoding sequence in place of the endogenous murine  
 CC sequence, and at least 1 Swedish Familial Alzheimer's Disease (FAD)  
 CC mutation. The mice can be used as tools, or models to elucidate the role  
 CC of human Abeta in AD pathology and symptomatology. They can also be used  
 CC to screen chemical compounds for the ability to inhibit in vivo  
 CC processing of APP, to yield the human Abeta peptide by administering the  
 CC chemical compounds to a mouse and measuring the relative amounts of  
 CC amyloidogenic and nonamyloidogenic processing of APP in a sample from the  
 CC mouse at an appropriate interval after administration of the chemical  
 CC compounds  
 XX  
 SQ Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 389 GGAGACCATTCATTCATTGG 408  
 Db ||||| ||||| ||||| ||||| |||||  
 20 GGAGAGCATTCATTCATTGG 1  
 RESULT 142  
 AAT93934/C  
 ID AAT93934 standard; DNA; 20 BP.  
 AC AAT93934;  
 XX  
 XX 03-FEB-1998 (first entry)  
 DT  
 DE Primer for exon 23 of endothelial nitrogen monoxide synthase gene.  
 XX  
 KW Exon 23; PCR primer; single stranded conformational polymorphism; SSCP;  
 KW analysis; endothelial nitrogen monoxide synthase; eNOS;  
 KW genetic screening; coronary arterial spasm; angina pectoris; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9718327-A1.  
 XX  
 PD 22-MAY-1997.  
 XX  
 PF 13-NOV-1996; 96WO-JP003324.  
 XX  
 PR 13-NOV-1995; 95JP-00319504.  
 PR 28-JUN-1996; 96JP-00168761.  
 XX

(SHIO ) SHIONOGI & CO LTD.  
 Yasue H, Yoshimura M;  
 WPI; 1997-289303/26.  
 Genetic screening for diseases associated with coronary arterial spasm -  
 by assessment of the occurrence of specific mutation(s) of the  
 endothelial nitrogen monoxide synthase gene.  
 Example 1; Page 14; 47pp; Japanese.  
 The present sequence is an exon 23 primer for the polymerase chain  
 reaction-single stranded conformational polymorphism (PCR-SSCP) analysis  
 of the endothelial nitrogen monoxide synthase (eNOS) gene. The PCR-SSCP  
 analysis was used in an example of genetic screening method for diseases  
 associated with coronary arterial spasm, which comprises determining if 1  
 or more specific nucleotides in the eNOS gene have been substituted,  
 specifically G894T, C774T, T(-786)C, A(-922)G and T(-1468)A. Screening  
 for diseases associated with coronary spasm, e.g angina pectoris, cannot  
 be easily carried out by existing methods, this method allows rapid and  
 easy detection  
 Sequence 20 BP; 3 A; 5 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 168 GCATTAAAGGACTGACTGAA 187  
 Db ||||| ||||| ||||| ||||| |||||  
 20 GCCTAAAGGACTGCCTGAA 1  
 RESULT 143  
 AAQ67482  
 ID AAQ67482 standard; DNA; 21 BP.  
 AC AAQ67482;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 31-MAY-1995 (first entry)  
 XX  
 DE PCR primer for human SOD1 exon 4.  
 XX  
 KW Human superoxide dismutase; hSOD1; neurodegeneration;  
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease;  
 KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;  
 KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;  
 KW SSCP analysis; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9419493-A1.  
 XX  
 PD 01-SEP-1994.  
 XX  
 PF 28-FEB-1994; 94WO-US002089.  
 XX  
 PR 26-FEB-1993; 93US-00023980.  
 XX  
 PA (GEHO ) GEN HOSPITAL CORP.  
 PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 XX  
 PI Brown R, Horvitz HR, Rosen DR;  
 XX  
 PD WPI; 1994-294353/36.  
 XX  
 PT Diagnosis, treatment and prevention of diseases of cell death - e.g.  
 PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD  
 PT activity.  
 XX

PS Claim 8; Fig 5; 94pp; English.

XX The presence of a mutation in a gene encoding a superoxide dismutase

CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a

CC cell death disease, specifically a neurodegenerative disease. The DNA can

CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by

CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers

CC which are useful for diagnosis of diseases linked to SOD1 mutations.

CC (Updated on 25-MAR-2003 to correct PN field.)

XX

SQ Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 144

AAV73832

ID AAV73832 standard; DNA; 21 BP.

XX

AC AAV73832;

XX

DT 24-FEB-1999 (first entry)

XX

DE Human SOD1 exon 4 PCR primer #1.

XX

KW SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;

KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;

KW familial; ALS; PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN US5849290-A.

XX

PD 15-DEC-1998.

XX

PF 07-JUN-1995; 95US-00486953.

XX

PR 26-FEB-1993; 93US-00023980.

PR 28-FEB-1994; 94US-00204052.

XX

PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.

PA (GEO ) GEN HOSPITAL CORP.

XX

PI Rosen DR, Brown R, Horvitz HR;

XX

XX WPI; 1999-069657/06.

XX

DR Treatment of neurodegenerative disease - by administering super-oxide

PT dismutase.

PT

XX

PS Disclosure; Fig 5; 53pp; English.

XX

XX AAV73826-V73835 are PCR primers used in the amplification of a novel

CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.

CC This protein can be used in a method for treating a neurodegenerative

CC disease particularly familial amyotrophic lateral sclerosis (ALS)

XX

XX Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 145

AD055695

ID AD055695 standard; DNA; 21 BP.

XX

AC AD055695;

XX

DT 15-JUL-2004 (first entry)

XX

DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #7.

XX

KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;

KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.

XX

OS Homo sapiens.

XX

PN US6723893-B1.

XX

PD 20-APR-2004.

XX

PF 28-FEB-1994; 94US-00204052.

XX

PR 26-FEB-1993; 93US-00023980.

XX

PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.

PA (GEO ) GEN HOSPITAL CORP INC.

XX

PI Brown R, Horvitz HR, Rosen DR;

XX

XX WPI; 2004-326924/30.

XX

DR New transgenic mouse having somatic and germ cells containing a transgene

PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1

PT polypeptide, useful for research or drug development.

XX

PS Disclosure; SEQ ID NO 10; 54pp; English.

XX

XX The invention relates to a transgenic mouse having somatic and germ cells

CC containing a transgene encoding and expressing a neurodegenerative

CC disease-causing mutant SOD1 polypeptide. The invention also relates to a

CC method of diagnosing an increased likelihood of developing cell death

CC disease in a patient, a kit for the diagnosis of cell death disease in a

CC patient, a method of treating a patient with a disease involving a mutant

CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method

CC of treating a patient with a neoplasm, a bacterial or yeast cell

CC containing a purified nucleic acid derived from a FALS gene, a purified

CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.

CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The

CC expression of the mutant polypeptide is under the regulation of the wild-

CC type promoter. The transgenic mouse is useful for research or drug

CC development. This sequence represents a PCR primer used to amplify SOD1

CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)

CC polypeptide.

XX

SQ Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 146

ADI79800/c

ID ADI79800 standard; DNA; 20 BP.

XX

AC ADI79800;

XX

DT 22-APR-2004 (first entry)



XX DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 323.  
 XX XX HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;  
 KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipemic;  
 KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;  
 KW human; ss.  
 XX OS Homo sapiens.  
 XX XX US2004006031-A1.  
 PN XX 08-JAN-2004.  
 PD XX  
 XX 02-JUL-2002; 2002US-00190366.  
 PF XX  
 XX 02-JUL-2002; 2002US-00190366.  
 PR XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA XX  
 XX Dean NM, Freier SM, Dobie KW;  
 PI WPI; 2004-081743/08.  
 PN XX  
 PD XX  
 XX New compounds, particularly antisense oligonucleotides targeted to a  
 PF nucleic acid encoding HMG-CoA reductase, useful for treating  
 XX atherosclerosis, or a disease involving cholesterol metabolism or  
 PR angiogenesis.  
 XX PT  
 XX Example 16; SEQ ID NO 323; 110pp; English.  
 PS XX  
 XX The invention relates to novel compounds of 8-80 nucleobases in length  
 CC targeted to, and which specifically hybridizes with, a nucleic acid  
 CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)  
 CC reductase, and inhibits the expression of HMG-CoA reductase. The novel  
 CC compounds have cardiant, antiarteriosclerotic, and antilipemic  
 CC activities. The compound can be used to treat disorders by antisense gene  
 CC therapy. The compounds, compositions and methods are useful for treating  
 CC a disease or condition associated with HMG-CoA reductase, such as a  
 CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition  
 CC involving cholesterol metabolism. They are also useful in research and  
 CC diagnostics for modulating the expression of HMG-CoA reductase. This  
 CC polynucleotide sequence represents an antisense oligonucleotide of the  
 CC invention.  
 XX SQ  
 SQ Sequence 20 BP; 7 A; 2 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 807 TCATTCAAGCCTGTGAAT 824  
 Db 18 TCATTCAAGCCTGTCAAT 1  
 RESULT 147  
 ADI79603  
 ID ADI79603 standard; DNA; 20 BP.  
 XX AC  
 XX ADI79603;  
 XX 22-APR-2004 (first entry)  
 DT XX  
 XX Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 126.  
 DE XX  
 XX HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;  
 KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipemic;  
 KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;  
 KW human; ss.  
 XX OS Homo sapiens.  
 XX XX

PN US2004006031-A1.  
 XX 08-JAN-2004.  
 PD XX  
 XX 02-JUL-2002; 2002US-00190366.  
 PF XX  
 XX 02-JUL-2002; 2002US-00190366.  
 PR XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA XX  
 XX Dean NM, Freier SM, Dobie KW;  
 PI WPI; 2004-081743/08.  
 PN XX  
 PD XX  
 XX New compounds, particularly antisense oligonucleotides targeted to a  
 PF nucleic acid encoding HMG-CoA reductase, useful for treating  
 XX atherosclerosis, or a disease involving cholesterol metabolism or  
 PR angiogenesis.  
 XX PT  
 XX Example 15; SEQ ID NO 126; 110pp; English.  
 PS XX  
 XX The invention relates to novel compounds of 8-80 nucleobases in length  
 CC targeted to, and which specifically hybridizes with, a nucleic acid  
 CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)  
 CC reductase, and inhibits the expression of HMG-CoA reductase. The novel  
 CC compounds have cardiant, antiarteriosclerotic, and antilipemic  
 CC activities. The compound can be used to treat disorders by antisense gene  
 CC therapy. The compounds, compositions and methods are useful for treating  
 CC a disease or condition associated with HMG-CoA reductase, such as a  
 CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition  
 CC involving cholesterol metabolism. They are also useful in research and  
 CC diagnostics for modulating the expression of HMG-CoA reductase. This  
 CC polynucleotide sequence represents an antisense oligonucleotide of the  
 CC invention.  
 XX SQ  
 SQ Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 1.9%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 807 TCATTCAAGCCTGTGAAT 824  
 Db 3 TCATTCAAGCCTGTCAAT 20  
 RESULT 148  
 AAF91027/C  
 ID AAF91027 standard; DNA; 17 BP.  
 XX AC  
 XX AAF91027;  
 XX 04-MAY-2001 (first entry)  
 DT XX  
 XX Human multi drug resistance-1 gene related sequence SEQ ID NO: 114.  
 DE XX  
 XX Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;  
 KW inflammatory disease; neuronal disease; CNS disease;  
 KW cardiovascular disease; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX XX  
 XX WO200109183-A2.  
 PN XX  
 XX 08-FEB-2001.  
 PD XX  
 XX 28-JUL-2000; 2000WO-EP007314.  
 PF XX  
 XX 30-JUL-1999; 99EP-00114938.  
 PR XX  
 XX 22-FEB-2000; 2000EP-00103361.  
 XX XX  
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
 PA XX  
 XX



```

XX SQ Sequence 17 BP; 5 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
DB 1 GATCACTTGGAGATT 16

RESULT 151
ABK41012/C
ID ABK41012 standard; DNA; 18 BP.
XX AC ABK41012;
XX DT 21-MAY-2002 (first entry)
XX DE Human obesity-associated biallelic marker upstream PCR primer #89.
XX KW Human; obesity associated-biallelic marker; chromosome 10; obesity; ss;
XX KW drug response; hyperuricaemia; digestive pathology; hypertension; cancer;
XX KW hepatic function disorder; cardiovascular disease; hyperlipidaemia; PCR;
XX KW insulin disorder; atheromatous disease; cardiac insufficiency; primer.
XX OS Homo sapiens.
XX PN WO200206525-A2.
XX PD 24-JAN-2002.
XX PF 28-JUN-2001; 2001WO-IB001477.
XX PR 18-JUL-2000; 2000US-0219704P.
XX PA (GEST ) GENSET.
XX PI Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
XX WPI; 2002-155043/20.
XX Set of novel map-related biallelic markers, preferably located on obesity
XX disorder-associated chromosomal regions on chromosomes 3, 10 and 19,
XX useful, for e.g. detecting statistical correlations between marker allele
XX and a phenotype.
XX Example 2; Page 246; 311pp; English.
XX The invention relates to a set of novel map-related biallelic markers,
XX preferably located on obesity disorder-associated chromosomal regions on
XX chromosomes 3, 10 and 19. The markers are useful for genotyping or
XX estimating the frequency of an allele in a population, for detecting an
XX association between a genotype or haplotype and a phenotype, e.g. a
XX disease involving drug responses, obesity or disorders related to
XX obesity, such as hyperuricaemia, digestive pathology, hepatic function
XX disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia,
XX insulin disorders, atheromatous disease and cardiac insufficiency. The
XX markers are useful for detecting a statistical correlation between a
XX biallelic marker allele and a phenotype and/or between a biallelic marker
XX haplotype and a phenotype. This sequence represents a PCR primer used to
XX amplify a human obesity-associated biallelic marker
XX Sequence 18 BP; 3 A; 10 C; 0 G; 5 T; 0 U; 0 Other;
Query Match 1.8%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 TGAAGGTGCGGGAAG 168
DB 16 TGAAGGTGCGGGAAG 1

XX SQ Sequence 17 BP; 5 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
DB 1 GATCACTTGGAGATT 16

RESULT 152
AAL50752
ID AAL50752 standard; DNA; 19 BP.
XX AC AAL50752;
XX DT 15-JAN-2004 (first entry)
XX DE PAL/alpha-tubulin-related unpredictable PCR (UP-PCR) primer #13.
XX KW PAL promoter; transgenic plant; protein expression; UP-PCR; primer;
XX KW alpha-tubulin promoter; ss.
XX OS Unidentified.
XX PN US6441273-B1.
XX PD 27-AUG-2002.
XX PF 07-APR-2000; 2000US-00545686.
XX PR 08-FEB-2000; 2000US-0184934P.
XX PA (CORR ) CORNELL RES FOUND INC.
XX PI Aldwinckle HS, Gaitan AL;
XX WPI; 2002-711537/77.
XX A novel DNA promoter, preferably a phenylalanine ammonia lyase promoter,
XX useful for making a transgenic plant, induces expression of protein
XX encoded by a second DNA operably associated with a DNA promoter.
XX Example 11; Col 28; 48pp; English.
XX The invention comprises the PAL promoter sequence isolated from Coffea
XX arabica (coffee) which is capable of inducing the expression of a protein
XX that it is operably associated with. The promoter sequence of the
XX invention is useful in the production of a transgenic plant and in
XX directing protein expression in plants. The present DNA sequence
XX represents a primer that was used in an unpredictable-PCR (UP-PCR)
XX protocol in an example of the invention
XX Sequence 19 BP; 3 A; 4 C; 4 G; 6 T; 0 U; 2 Other;
Query Match 1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGGATTCCATGTTTCATG 212
DB 1 ATGGATTCCATGTTTCATG 18

RESULT 153
ADM83390
ID ADM83390 standard; DNA; 19 BP.
XX AC ADM83390;
XX DT 03-JUN-2004 (first entry)
XX DE Coffea arabica PAL gene gene-walking PCR primer 13.
XX KW Promoter; alpha-tubulin promoter; phenylalanine ammonia lyase promoter;
XX KW PAL; protein expression; pathogen resistant cultivar; coffee; PCR;
XX KW primer; ss.
XX OS Coffea arabica.
XX PN US2003163837-A1.

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XX PD 28-AUG-2003.  
 XX PF 16-JUL-2002; 2002US-00197280.  
 XX PR 08-FEB-2000; 2000US-0180934P.  
 XX PR 07-APR-2000; 2000US-00545686.  
 XX (ALDW/) ALDWINCKLE H S.  
 XX (GAIT/) GAITAN A L.  
 XX PI Aldwinckle HS, Gaitan AL;  
 XX WPI; 2003-897980/82.  
 XX New DNA promoter for inducing expression of a protein encoded by a second  
 PT DNA operably associated with the DNA promoter isolated from coffee,  
 PT useful for directing protein expression in plants.  
 XX Example 11; SEQ ID NO 27; 50pp; English.  
 XX The present invention relates to the isolation of two DNA promoters  
 CC (alpha-tubulin and phenylalanine ammonia lyase) from a coffee plant  
 CC capable of inducing the expression of a second DNA operably linked to the  
 CC promoter. The invention is useful for directing protein expression in  
 CC plants. The invention is also useful for the development of pathogen  
 CC resistant cultivars of coffee, improve other characteristics of coffee  
 CC plants such as hardness, production and cup quality and overcoming the  
 CC deficiencies of the methods for fighting disease in the coffee plant. The  
 CC present sequence is coffee arabica PAL gene gene-walking PCR primer. The  
 CC primer is used in the exemplification of the invention.  
 XX Sequence 19 BP; 3 A; 4 C; 4 G; 6 T; 0 U; 2 Other;  
 SQ Query Match 1.8%; Score 16; DB 1; Length 19;  
 Best Local Similarity 88.9%; Pred. No. 1.2e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 195 ATGGATTCCATGTTTCATG 212  
 DB 1 ATGGNTTCCATGTCATG 18  
 RESULT 154  
 ID ACF62527  
 XX ACF62527 standard; DNA; 17 BP.  
 AC ACF62527;  
 XX 08-OCT-2003 (first entry)  
 XX Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:356.  
 DE DE  
 XX Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;  
 KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;  
 KW cytostatic; PCR primer; ss.  
 XX Synthetic.  
 OS WO2003013534-A2.  
 PN 20-FEB-2003.  
 PD 23-JUL-2002; 2002WO-EP008219.  
 XX 23-JUL-2001; 2001EP-00117608.  
 PR 24-MAY-2002; 2002EP-00011710.  
 XX (EPID-) EPIDAUS BIOTECHNOLOGIE AG.  
 XX Heinrich G, Kerb R;  
 XX WPI; 2003-268144/26.

XX PT New use of irinotecan for preparation of compositions for treating cancer  
 PT in subject having genome with variant allele comprising cytochrome p450,  
 PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.  
 XX Disclosure; Page 42; 86pp; English.  
 XX The present invention describes the use of irinotecan (I) or its  
 CC derivative for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject having a genome with a variant  
 CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine  
 CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have  
 CC cytostatic activity. The therapeutic applications of (I) is improved,  
 CC since it is possible to individually treat a subject with an appropriate  
 CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,  
 CC harmful or toxic effects are efficiently avoided. Unnecessary and  
 CC potentially harmful treatment of those subjects who do not respond to the  
 CC treatment with substances (nonresponders), as well as the development of  
 CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
 CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;  
 SQ Query Match 1.8%; Score 15.6; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 321 GCATGTGACTGCTGCA 336  
 DB 2 GCATGTGACTGCTGCA 17  
 RESULT 155  
 ID ADB21198  
 XX ADB21198 standard; DNA; 17 BP.  
 AC ADB21198;  
 XX 20-NOV-2003 (first entry)  
 XX MRP1 based cancer related nucleic acid SEQ ID NO:356.  
 DE DE  
 XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
 KW variant allele; multidrug resistance protein 1; MRP1; cytostatic; gene;  
 KW ds.  
 XX Unidentified.  
 OS WO2003013533-A2.  
 PN 20-FEB-2003.  
 PD 23-JUL-2002; 2002WO-EP008200.  
 XX 23-JUL-2001; 2001EP-00117608.  
 PR 24-MAY-2002; 2002EP-00011710.  
 XX (EPID-) EPIDAUS BIOTECHNOLOGIE AG.  
 XX Heinrich G, Kerb R;  
 XX WPI; 2003-354397/33.  
 XX Use of irinotecan or its derivative for preparation of a pharmaceutical  
 PT composition for treating cancer in a subject having a genome with a  
 PT variant allele comprising a multidrug resistance protein 1  
 PT polynucleotide.  
 XX Disclosure; Page 51; 100pp; English.  
 PS

CC The present invention describes a method for the use of irinotecan (I) or  
 CC its derivative for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject having a genome with a variant  
 CC allele which comprises a multidrug resistance protein 1 (MRP1)  
 CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative  
 CC can be used for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject, where the subject is a human  
 CC (preferably African or Asian) or a mouse. The present sequence represents  
 CC a sequence which is used in the exemplification of the present invention.  
 XX  
 SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 1.8%; Score 15.6; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGCTACTGCTGA 336  
 DB 2 GCAATGCTACTGCTGA 17  
 |||||:|||||

RESULT 156  
 ADB88287  
 ID ADB88287 standard; DNA; 17 BP.

AC ADB88287;  
 XX  
 XX  
 DT 04-DEC-2003 (first entry)  
 DE Human UGT1A1 variant allele sequence fragment SEQ ID NO:328.

XX ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;  
 KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;  
 KW ovarian cancer; pancreatic cancer; malignant glioma;  
 KW uridine diphosphate glycosyltransferase1 member A1.

XX Homo sapiens.  
 XX WO2003013536-A2.  
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008217.  
 XX 23-JUL-2001; 2001EP-00117608.  
 XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;  
 XX WPI; 2003-289896/28.

XX Use of irinotecan to treat cancer patient by determining if patient has  
 PT variant alleles of UGT1A1 gene, administering increased/decreased amounts  
 PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.  
 XX Disclosure; Page 55; 107pp; English.

XX The invention relates to the novel use of irinotecan to treat a patient  
 CC suffering from cancer. This involves determining if the patient has one  
 CC or more variant alleles of the UGT1A1 gene, and if the patient has one or  
 CC more of such variant alleles, irinotecan is administered in an increased  
 CC or decreased amount in comparison to the amount that is administered  
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention  
 CC has cytostatic activity. A composition of the invention acts as a  
 CC topoisomerase I inhibitor. The method is useful for treating a patient,  
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering  
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,  
 CC pancreatic cancer or malignant glioma. The present sequence is used in  
 CC the exemplification of the invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;  
 Query Match 1.8%; Score 15.6; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGCTACTGCTGA 336  
 DB 2 GCAATGCTACTGCTGA 17  
 |||||:|||||

RESULT 157  
 ADB97270  
 ID ADB97270 standard; DNA; 17 BP.

AC ADB97270;  
 XX  
 XX  
 DT 04-DEC-2003 (first entry)

DE Human MDR1 variant allele sequence fragment SEQ ID NO:356.  
 XX  
 XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1; MDR1;  
 KW TOPI.

XX Homo sapiens.  
 XX WO2003013537-A2.  
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008218.  
 XX 23-JUL-2001; 2001EP-00117608.  
 XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;  
 XX WPI; 2003-268145/26.

XX New use of irinotecan for preparation of pharmaceutical compositions for  
 PT treating cancer in subject having genome with variant allele comprising  
 PT multidrug resistance 1 polynucleotide.  
 XX Disclosure; Page 79; 130pp; English.

XX The invention relates to the novel use of irinotecan or its derivative  
 CC for the preparation of pharmaceutical compositions for treating  
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or  
 CC malignant glioma in a subject having a genome with a variant allele which  
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition  
 CC of the invention has cytostatic activity. The invention is useful for the  
 CC preparation of pharmaceutical compositions for treating colorectal,  
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant  
 CC glioma in a subject (preferably human, more preferably African or Asian)  
 CC or a mouse. The present sequence is used in the exemplification of the  
 CC invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;  
 Query Match 1.8%; Score 15.6; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGCTACTGCTGA 336  
 DB 2 GCAATGCTACTGCTGA 17  
 |||||:|||||



CC The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha  
 XX  
 SQ Sequence 17 BP; 2 A; 2 C; 1 G; 12 T; 0 U; 0 Other;

Query Match 1.8%; Score 15.4; DB 1; Length 17;  
 Best Local Similarity 94.1%; Pred. No. 1.2e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAA 474  
 DB 17 ATGAGAGAAATACAA 1

## RESULT 161

AAAN71205  
 ID AAN71205 standard; cDNA; 15 BP.

XX  
 AC AAN71205;

DT 03-MAY-1991 (first entry)

XX Sequence of probe for human superoxide dismutase (hsOD).

XX Enzyme; arthro-rheumatoid osteoarthritis; radiation-induced effects; ss.

XX Homo sapiens.

XX DE3628508-A.

XX 12-MAR-1987.

XX 22-AUG-1986; 86DE-03628508.

XX 23-AUG-1985; 85JP-00185246.

PR 15-AUG-1986; 86JP-00191235.

XX (TOXN ) TOYO JOZO KK.

XX Sagai H, Takahara M, Katsuragi S, Kajiwara J, Masujima H;

XX WPI; 1987-073705/11.

XX New polypeptide analogues of human superoxide dismutase - and metal contg.  
 PT dimers, useful e.g. for treating osteoarthritis.

XX Example; p5; 25pp; German.

XX cDNA encoding hsOD (AAN71204) is isolated using a 5-triplet probe  
 CC (AAN71205). The cDNA is subjected to site-specific mutagenesis and  
 CC expressed to produce hsOD analogues (AAP70930) which are claimed

XX Sequence 15 BP; 4 A; 4 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAGGCC 79

DB 1 ATGGCGACGAGGCC 15

## RESULT 162

AAQ61567  
 ID AAQ61567 standard; DNA; 15 BP.

XX

AC AAQ61567;  
 XX 11-NOV-1994 (first entry)  
 DT Human SOD probe.  
 XX Human; porcine; super oxide dismutase; SOD; vector; hybrid; expression;  
 KW ss.  
 XX Synthetic.  
 OS JP06054682-A.  
 PN 01-MAR-1994.  
 XX 06-AUG-1992; 92JP-00210435.  
 XX 06-AUG-1992; 92JP-00210435.  
 PR (ASAH ) ASahi CHEM IND CO LTD.  
 XX WPI; 1994-111907/14.  
 DR Recombinant prepn. of a polypeptide having super oxide dismutase activity  
 XX - by culture of cell transformed with a vector contg. a hybrid human/pig  
 PT SOD gene.  
 XX Disclosure; Page 8; 15pp; Japanese.  
 XX A hybrid gene of the human SOD gene and pig SOD gene was prepd. by  
 CC replacing DNA encoding amino acids 107-113 of human SOD, with DNA  
 CC encoding amino acids 106-112 of pig SOD. The gene was inserted into a  
 CC vector of transformation into a cell, e.g. E. coli. The cell was cultured  
 CC and the polypeptide collected  
 XX Sequence 15 BP; 4 A; 4 C; 6 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 1.7%; Score 15; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAGGCC 79  
 DB 1 ATGGCGACGAGGCC 15

RESULT 163  
 ADO43600  
 ID ADO43600 standard; DNA; 15 BP.  
 XX ADO43600;  
 AC ADO43600;  
 XX 29-JUL-2004 (first entry)  
 DT Wild type DNA fragment of SOD-1 where G12R mutation occurs.  
 XX DNzyme; dominantly inherited disorder; achondroplasia;  
 KW myotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;  
 KW osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.  
 XX Homo sapiens.  
 OS WO2004038019-A2.  
 XX 06-MAY-2004.  
 PD 23-OCT-2003; 2003WO-GE004614.  
 XX 23-OCT-2002; 2002GB-00024663.  
 XX (ISIS-) ISIS INNOVATION LTD.  
 XX Beeson D, Wood M, Abdelgany A;

XX DR WPI; 2004-365523/34.

XX PT New DNzyme that cleaves mutant polynucleotides, useful in treating a

PT dominantly inherited disorder associated with a mutant allele, such as

PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and

PT hypercholesterolemia.

XX PS Disclosure; Page 7; 24pp; English.

XX CC The specification describes a DNzyme which selectively cleaves a mutant

CC polynucleotide by cleaving at a site remote from the mutation site. The

CC DNzyme binds selectively to a mutant allele or its expressed product,

CC and comprises a central catalytic motif (Helix II) and two flanking

CC regions (helix I and III) where at least one of the flanking regions has

CC a polynucleotide sequence complementary to a region that includes the

CC mutation in the mutant allele or to that of the expressed product. Both

CC flanking regions are complementary to mutated regions of the mutant

CC allele or the expressed product. The complement of the mutation is 2 or 3

CC nucleotides upstream or downstream of the site of cleavage, preferably in

CC helix I. Helix I and III are of different lengths, where helix I is

CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.

CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.

CC At least one of the flanking regions comprises ribonucleic acid. The

CC DNzyme further comprises a stem-loop structure at either or both

CC termini. The DNzyme is useful in therapy, in particular for the

CC manufacture of a medicament for the treatment of a disorder associated

CC with a mutant allele in a patient, where the DNzyme comprises a central

CC catalytic motif and two flanking substrate-binding regions, and where at

CC least one flanking region binds at the site of mutation in the mutant

CC allele or its expressed product and the catalytic motif cleaves at a site

CC remote from the site of mutation. The disorder is a dominantly inherited

CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1

CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta

CC and SCWS. ADO43600-ADO43601 represent the wild type and mutant DNA

CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene

CC where a G12R mutation occurs, and causes amyotrophic lateral sclerosis.

CC These sequences are suitable for the design of DNzymes of the invention

CC (see ADO43602).

XX CC

XX SQ Sequence 15 BP; 2 A; 5 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 95 GCGCAGCGCCCACTG 109

DB 1 GCGCAGCGCCCACTG 15

RESULT 164

ADO43606

ID ADO43606 standard; DNA; 15 BP.

XX AC ADO43606;

XX AC

DT 29-JUL-2004 (first entry)

XX DE Wild type DNA fragment of SOD-1 where L26S mutation occurs.

XX DNzyme; dominantly inherited disorder; achondroplasia;

KW amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;

KW osteogenesis imperfecta; SCWS; ss; superoxide disutase; SOD-1.

XX OS Homo sapiens.

XX PN WO2004038019-A2.

XX PD 06-MAY-2004.

XX PF 23-OCT-2003; 2003WO-GB004614.

PR 23-OCT-2002; 2002GB-00024663.

XX (ISIS-) ISIS INNOVATION LTD.

XX PI Beeson D, Wood M, Abdelgany A;

XX WPI; 2004-365523/34.

XX PT New DNzyme that cleaves mutant polynucleotides, useful in treating a

PT dominantly inherited disorder associated with a mutant allele, such as

PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and

PT hypercholesterolemia.

XX PS Disclosure; Page 8; 24pp; English.

XX CC The specification describes a DNzyme which selectively cleaves a mutant

CC polynucleotide by cleaving at a site remote from the mutation site. The

CC DNzyme binds selectively to a mutant allele or its expressed product,

CC and comprises a central catalytic motif (Helix II) and two flanking

CC regions (helix I and III) where at least one of the flanking regions has

CC a polynucleotide sequence complementary to a region that includes the

CC mutation in the mutant allele or to that of the expressed product. Both

CC flanking regions are complementary to mutated regions of the mutant

CC allele or the expressed product. The complement of the mutation is 2 or 3

CC nucleotides upstream or downstream of the site of cleavage, preferably in

CC helix I. Helix I and III are of different lengths, where helix I is

CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.

CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.

CC At least one of the flanking regions comprises ribonucleic acid. The

CC DNzyme further comprises a stem-loop structure at either or both

CC termini. The DNzyme is useful in therapy, in particular for the

CC manufacture of a medicament for the treatment of a disorder associated

CC with a mutant allele in a patient, where the DNzyme comprises a central

CC catalytic motif and two flanking substrate-binding regions, and where at

CC least one flanking region binds at the site of mutation in the mutant

CC allele or its expressed product and the catalytic motif cleaves at a site

CC remote from the site of mutation. The disorder is a dominantly inherited

CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1

CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta

CC and SCWS. ADO43606-ADO43607 represent the wild type and mutant DNA

CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene

CC where a L26S mutation occurs, and causes amyotrophic lateral sclerosis.

CC These sequences are suitable for the design of DNzymes of the invention

CC (see ADO43608).

XX CC

XX SQ Sequence 15 BP; 5 A; 2 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGCAAA 451

DB 1 GATGACTTGGCAAA 15

RESULT 165

AAH21294

ID AAH21294 standard; DNA; 17 BP.

XX AC AAH21294;

XX AC

DT 13-SEP-2001 (first entry)

XX DE Human MDR-1 allele ex12/+44 counterstrain.

XX MDR-1; human; multidrug resistance gene; genotyping; SNP; screening;

KW single nucleotide polymorphism; ds.

XX OS Homo sapiens.

XX PN DE19963490-A1.



PD 05-JUL-2001.  
 XX 28-DEC-1999; 99DE-01063490.  
 XX 28-DEC-1999; 99DE-01063490.  
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
 XX Kostrzewa M, Hoffmeyer S, Brinkmann U;  
 XX WPI; 2001-426633/46.  
 XX Genotyping multidrug resistance gene-1, useful for assessing doses of  
 PT pharmaceuticals, by mass spectrometric analysis of primer extension  
 PT products.  
 XX Disclosure; Page 11; 22pp; German.  
 XX This invention describes a novel method for genotyping the human MDR-1  
 CC (multidrug resistance-1) gene by mass spectrometric detection of the  
 CC mutational status at some or all of 16 point mutations (single nucleotide  
 CC polymorphism; SNPs). Genotyping the MDR-1 gene may indicate altered  
 CC expression or function of the encoded protein (which regulates the  
 CC transport of compounds, including drugs, across cell membranes), and thus  
 CC may indicate that changes in drug dosage are required. The method is  
 CC rapid, valid and inexpensive, and provides a high throughput screen with  
 CC only a few genotypic characteristics expected. Particularly mass analysis  
 CC takes only 4 seconds, so a four-fold multiplex reaction will allow all  
 CC positions to be determined in about 16 sec  
 XX Sequence 17 BP; 3 A; 3 C; 5 G; 5 T; 0 U; 1 Other;  
 SQ

Query Match 1.7%; Score 15; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.3e+02;  
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGCAATGTGACTGCTG 335  
 DB 1 GTGCAATGTRACTGCTG 17

RESULT 166  
 AAH21293/c  
 ID AAH21293 standard; DNA; 17 BP.  
 XX AAH21293;  
 XX 13-SEP-2001 (first entry)  
 XX Human MDR-1 allele ex12/+44.  
 XX MDR-1; human; multidrug resistance gene; genotyping; SNP; screening;  
 KW single nucleotide polymorphism; ds.  
 XX Homo sapiens.  
 XX DE19963490-A1.  
 XX 05-JUL-2001.  
 XX 28-DEC-1999; 99DE-01063490.  
 XX 28-DEC-1999; 99DE-01063490.  
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
 XX Kostrzewa M, Hoffmeyer S, Brinkmann U;  
 XX WPI; 2001-426633/46.  
 XX Genotyping multidrug resistance gene-1, useful for assessing doses of  
 PT pharmaceuticals, by mass spectrometric analysis of primer extension  
 PT products.

XX Disclosure; Page 11; 22pp; German.  
 XX This invention describes a novel method for genotyping the human MDR-1  
 CC (multidrug resistance-1) gene by mass spectrometric detection of the  
 CC mutational status at some or all of 16 point mutations (single nucleotide  
 CC polymorphism; SNPs). Genotyping the MDR-1 gene may indicate altered  
 CC expression or function of the encoded protein (which regulates the  
 CC transport of compounds, including drugs, across cell membranes), and thus  
 CC may indicate that changes in drug dosage are required. The method is  
 CC rapid, valid and inexpensive, and provides a high throughput screen with  
 CC only a few genotypic characteristics expected. Particularly mass analysis  
 CC takes only 4 seconds, so a four-fold multiplex reaction will allow all  
 CC positions to be determined in about 16 sec  
 XX Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;  
 SQ

Query Match 1.7%; Score 15; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.3e+02;  
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGCAATGTGACTGCTG 335  
 DB 17 GTGCAATGTRACTGCTG 1

RESULT 167  
 AAF91028/c  
 ID AAF91028 standard; DNA; 17 BP.  
 XX AAF91028;  
 XX 04-MAY-2001 (first entry)  
 XX Human multi drug resistance-1 gene related sequence SEQ ID NO: 115.  
 XX Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;  
 KW inflammatory disease; neuronal disease; CNS disease;  
 KW cardiovascular disease; PCR primer; ss.  
 XX Homo sapiens.  
 XX WO200109183-A2.  
 XX 08-FEB-2001.  
 XX 28-JUL-2000; 2000WO-EP007314.  
 XX 30-JUL-1999; 99EP-00114938.  
 XX 22-FEB-2000; 2000EP-00103361.  
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
 XX Brinkmann U, Hoffmeyer S, Eichelbaum M, Roots I;  
 XX WPI; 2001-159855/16.  
 XX New polynucleotide encoding a molecular variant Multi Drug Resistance  
 PT (MDR)-1 polypeptide is useful for diagnosing and treating diseases  
 PT associated with abnormal MDR-1 expression or function, e.g. cancer.  
 XX Claim 36; Page 101; 154pp; English.  
 XX The present invention provides nucleotides encoding molecular variants of  
 CC the human multi drug resistance-1 (MDR-1) protein. These can be used to  
 CC identify compounds capable of treating multidrug resistance and  
 CC sensitivity interfering resulting from polymorphisms in MDR-1, which can  
 CC lead to difficulties in treating cancer, cardiovascular, neuronal,  
 CC inflammatory and CNS diseases  
 XX Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;  
 SQ

Query Match 1.7%; Score 15; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.3e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335  
 DB 17 GTGCAATGTRACTGCTG 1

RESULT 168  
 ID ABT38676 standard; DNA; 17 BP.  
 AC ABT38676;  
 XX  
 DT 12-JUN-2003 (first entry)  
 DE  
 XX Tumour suppression related human fukutin oligo SEQ ID No 4313.  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025175-A2.  
 PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004208.  
 XX  
 PR 17-SEP-2001; 2001FR-00011978.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnders M;  
 XX  
 DR WPI; 2003-313353/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 PS Disclosure; Page 538; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 6 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335  
 DB 17 GTGCAATGTRACTGCTG 1

RESULT 170  
 ID ADB21197/c standard; DNA; 17 BP.  
 ID ADB21197 standard; DNA; 17 BP.

Best Local Similarity 88.2%; Pred. No. 1.3e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335  
 DB 17 GTGCAATGTRACTGCTG 1

RESULT 169  
 ACF62526/c  
 ID ACF62526 standard; DNA; 17 BP.  
 XX  
 AC ACF62526;  
 XX  
 DT 08-OCT-2003 (first entry)  
 DE  
 XX Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:355.  
 KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;  
 KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;  
 KW cytosstatic; PCR primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO2003013534-A2.  
 XX  
 PD 20-FEB-2003.  
 XX  
 PF 23-JUL-2002; 2002WO-EP008219.  
 XX  
 PR 23-JUL-2001; 2001EP-00117608.  
 PR 24-MAY-2002; 2002EP-00011710.  
 XX  
 PA (EPID-) EPIDAUKROS BIOTECHNOLOGIE AG.  
 XX  
 PI Heinrich G, Kerb R;  
 XX  
 DR WPI; 2003-268144/26.  
 XX  
 PT New use of irinotecan for preparation of compositions for treating cancer  
 PT in subject having genome with variant allele comprising cytochrome p450,  
 PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.  
 XX  
 PS Disclosure; Page 42; 86pp; English.  
 XX  
 CC The present invention describes the use of irinotecan (I) or its  
 CC derivative for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject having a genome with a variant  
 CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine  
 CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have  
 CC cytostatic activity. The therapeutic applications of (I) is improved,  
 CC since it is possible to individually treat a subject with an appropriate  
 CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,  
 CC harmful or toxic effects are efficiently avoided. Unnecessary and  
 CC potentially harmful treatment of those subjects who do not respond to the  
 CC treatment with substances (nonresponders), as well as the development of  
 CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
 CC to ACP62751 and ABM34912 to ABM35013 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;

Query Match 1.7%; Score 15; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.3e+02;  
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335  
 DB 17 GTGCAATGTRACTGCTG 1

RESULT 170  
 ID ADB21197/c standard; DNA; 17 BP.  
 ID ADB21197 standard; DNA; 17 BP.

```

XX AC ADB211197;
XX XX
XX DT 20-NOV-2003 (first entry)
XX XX
XX DE MRP1 based cancer related nucleic acid SEQ ID NO:355.
XX XX
XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
XX KW variant allele; multidrug resistance protein 1; MRP1; cytosolic; gene;
XX KW ds.
XX XX
XX OS Unidentified.
XX XX
XX PN WO2003013533-A2.
XX XX
XX PD 20-FEB-2003.
XX XX
XX PF 23-JUL-2002; 2002WO-EP008200.
XX XX
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.
XX XX
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Heinrich G, Kerb R;
XX XX
XX DR WPI; 2003-354397/33.
XX XX
XX CC Use of irinotecan or its derivative for preparation of a pharmaceutical
XX PT composition for treating cancer in a subject having a genome with a
XX PT variant allele comprising a multidrug resistance protein 1
XX PT polynucleotide.
XX XX
XX PS Disclosure; Page 51; 100pp; English.
XX XX
XX CC The present invention describes a method for the use of irinotecan (I) or
XX CC its derivative for the preparation of a pharmaceutical composition for
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX CC cancer, or malignant glioma in a subject having a genome with a variant
XX CC allele which comprises a multidrug resistance protein 1 (MRP1)
XX CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative
XX CC can be used for the preparation of a pharmaceutical composition for
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX CC cancer, or malignant glioma in a subject, where the subject is a human
XX CC (preferably African or Asian) or a mouse. The present sequence represents
XX CC a sequence which is used in the exemplification of the present invention.
XX XX
XX SQ Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;
XX
XX Query Match 1.7%; Score 15; DB 1; Length 17;
XX Best Local Similarity 88.2%; Pred. No. 1.3e+02;
XX Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 319 GGGCAATGTCACGCTG 335
DB 17 GTGCAATGTRACTGCTG 1
| | | | | | | | | |
| | | | | | | | | |

RESULT 171
ADB88286/c
ID ADB88286 standard; DNA; 17 BP.
XX
XX AC ADB88286;
XX XX
XX DT 04-DEC-2003 (first entry)
XX XX
XX DE Human UGT1A1 variant allele sequence fragment SEQ ID NO:327.
XX XX
XX KW ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;
XX KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
XX KW ovarian cancer; pancreatic cancer; malignant glioma;
XX KW uridine diphosphate glycosyltransferase 1.
XX
XX Homo sapiens.
XX WO2003013536-A2.
XX 20-FEB-2003.
XX 23-JUL-2002; 2002WO-EP008217.
XX 23-JUL-2001; 2001EP-00117608.
XX 24-MAY-2002; 2002EP-00011710.
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX Heinrich G, Kerb R;
XX WPI; 2003-289896/28.
XX Use of irinotecan to treat cancer patient by determining if patient has
XX variant alleles of UGT1A1 gene, administering increased/decreased amounts
XX of irinotecan based on increased/decreased levels of UGT1A1 gene product.
XX Disclosure; Page 55; 107pp; English.
XX The invention relates to the novel use of irinotecan to treat a patient
XX suffering from cancer. This involves determining if the patient has one
XX or more variant alleles of the UGT1A1 gene, and if the patient has one or
XX more of such variant alleles, irinotecan is administered in an increased
XX or decreased amount in comparison to the amount that is administered
XX without regard to the patient's alleles in the UGT1A1 gene. The invention
XX has cytostatic activity. A composition of the invention acts as a
XX topoisomerase I inhibitor. The method is useful for treating a patient,
XX an animal e.g. mouse or a human, preferably African or Asian, suffering
XX from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
XX pancreatic cancer or malignant glioma. The present sequence is used in
XX the exemplification of the invention.
XX Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;
XX
XX Query Match 1.7%; Score 15; DB 1; Length 17;
XX Best Local Similarity 88.2%; Pred. No. 1.3e+02;
XX Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 319 GGGCAATGTCACGCTG 335
DB 17 GTGCAATGTRACTGCTG 1
| | | | | | | | | |
| | | | | | | | | |

RESULT 172
ADB97269/c
ID ADB97269 standard; DNA; 17 BP.
XX
XX AC ADB97269;
XX XX
XX DT 04-DEC-2003 (first entry)
XX XX
XX DE Human MDR1 variant allele sequence fragment SEQ ID NO:355.
XX XX
XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
XX KW multidrug resistance 1; MDR1; cytostatic; human; ds; CYP3A5; MRP1;
XX KW TOP1.
XX
XX OS Homo sapiens.
XX XX
XX PN WO2003013537-A2.
XX XX
XX PD 20-FEB-2003.
XX XX
XX PF 23-JUL-2002; 2002WO-EP008218.
XX XX
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.

```

[illegible]

CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT.  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 XX  
 SQ Sequence 17 BP; 6 A; 4 C; 1 G; 0 T; 6 U; 0 Other;  
 Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGA 691  
 DB 16 AGAACTGATTATGA 1  
 |||||

RESULT 175  
 AAF05438  
 ID AAF05438 standard; DNA; 17 BP.  
 XX  
 AC AAF05438;  
 XX  
 DT 16-FEB-2001 (first entry)  
 XX  
 DE Hammerhead ribozyme substrate #2657.  
 XX  
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200061729-A2.  
 XX  
 PD 19-OCT-2000.  
 XX  
 PF 11-APR-2000; 2000WO-US009721.  
 XX  
 PR 12-APR-1999; 99US-0129390P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
 XX  
 DR WPI; 2000-647423/62.  
 XX  
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200061729-A2.  
 XX  
 PD 19-OCT-2000.  
 XX  
 PF 11-APR-2000; 2000WO-US009721.  
 XX  
 PR 12-APR-1999; 99US-0129390P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
 XX  
 DR WPI; 2000-647423/62.  
 XX  
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.  
 XX  
 PS Claim 18; Page 116; 164pp; English.  
 XX  
 CC The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha  
 XX  
 SQ Sequence 17 BP; 7 A; 3 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 135 AGAAAGTAATGACC 150  
 DB 1 AGGAACTAATGACC 16  
 |||||

RESULT 176  
 AAF03384/C  
 ID AAF03384 standard; DNA; 17 BP.  
 XX  
 AC AAF03384;  
 XX  
 DT 16-FEB-2001 (first entry)  
 XX  
 DE Hammerhead ribozyme substrate #1679.  
 XX  
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200061729-A2.  
 XX  
 PD 19-OCT-2000.  
 XX  
 PF 11-APR-2000; 2000WO-US009721.  
 XX  
 PR 12-APR-1999; 99US-0129390P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
 XX  
 DR WPI; 2000-647423/62.  
 XX  
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.  
 XX  
 OS Homo sapiens.  
 XX  
 PS Claim 37; Page 94; 164pp; English.  
 XX  
 CC The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha  
 XX  
 SQ Sequence 17 BP; 2 A; 2 C; 2 G; 11 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAGAAAGTACAA 473  
 DB 16 AATGAGAAATACAA 1  
 |||||

RESULT 177  
 AAF03381/C  
 ID AAF03381 standard; DNA; 17 BP.  
 XX  
 AC AAF03381;  
 XX  
 DT 16-FEB-2001 (first entry)  
 XX  
 DE Hammerhead ribozyme substrate #1676.  
 XX  
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.

```

XX OS Homo sapiens.
XX PN WO200061729-A2.
XX PD 19-OCT-2000.
XX PF 11-APR-2000; 2000WO-US009721.
XX PR 12-APR-1999; 99US-0129390P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX WPI; 2000-647423/62.
XX DR
XX PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
XX useful for producing e.g. granulocyte colony stimulating factor protein,
XX interferon alpha and erythropoietin.
XX PS Claim 37; Page 94; 164pp; English.
XX CC The present invention relates to enzymatic and antisense nucleic acid
XX molecules that act as inhibitors of the expression of repressor genes
XX encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
XX factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
XX CC Inhibition of the repressors removes prevents inhibition (and
XX consequently increases expression of) genes involved in the production of
XX erythropoietin, granulocyte colony stimulating factor protein and
XX interferon alpha
XX SQ Sequence 17 BP; 1 A; 4 C; 1 G; 11 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAGTACAAAGA 476
DB 17 GAAGAATACAAAGA 2
|||||
|||||

RESULT 178
ABK02234/C
ID ABK02234 standard; RNA; 17 BP.
XX AC ABK02234;
XX DT 12-MAR-2002 (first entry)
XX DE Human NOGO DNzyme #146.
XX KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
XX cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
XX muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
XX DNzyme; inozyme; G-cleaver; amberzyme; zincyme; lymphoma; leukaemia;
XX B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
XX human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
XX MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
XX inflammatory arthropathy; central nervous system injury;
XX cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
XX Parkinson's disease; ataxia; Huntington's disease;
XX Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX OS Homo sapiens.
XX OS Synthetic.
XX PN WO200159103-A2.
XX PD 16-AUG-2001.
XX

09-FEB-2001; 2001WO-US004273.
11-FEB-2000; 2000US-0181797P.
28-FEB-2000; 2000US-0185516P.
06-MAR-2000; 2000US-0187128P.
(RIBO-) RIBOZYME PHARM INC.
(BLAT/) BLATT L.
(MCSW/) MCSWIGGEN J.
(CHOW/) CHOWRIRA B M.
Blatt L, Mcswiggen J, Chowrira BM;
WPI; 2001-607195/69.
Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
constructs, which down regulate expression of a CD20 gene or neurite
growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
central nervous system injury.
Claim 88; Page 115; 200pp; English.
The invention relates to a nucleic acid molecule which down regulates
expression of a CD20 gene and a nucleic acid molecule which down
regulates expression of a neurite growth inhibitor gene (NOGO). The
nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
DNzyme) an inozyme (an endolytic nucleic acid cleaving a an RNA molecule
possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr
an amberzyme (cleaving RNA with an NGN triplet), a zincyme (cleaving RNA
with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA
of CD20 in the presence of a divalent cation that is preferably Mg2+.
Furthermore, it may be contacted with a cell to reduce CD20 activity of
the cell and treat a patient having a condition associated with the level
of CD20. The treatment may further comprise the use of one or more
therapies. In particular, the CD20 targeting nucleic acid may be used to
treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-
targetting nucleic acid is used to cleave RNA of the NOGO gene in the
presence of a divalent cation that is preferably Mg2+. Furthermore, the
nucleic acid may be contacted with a cell to reduce NOGO activity of the
cell and treat a patient having a condition associated with the level of
NOGO. The treatment may further comprise the use of one or more
therapies. In particular, the NOGO-targetting nucleic acid may be used to
treat central nervous system (CNS) injury and cerebrovascular accident
(CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
disease, muscular dystrophy, and/or other neurodegenerative disease
states which respond to the modulation of NOGO expression. The present
sequence is a DNzyme molecule of the invention
Sequence 17 BP; 5 A; 1 C; 2 G; 0 T; 9 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872
DB 17 TTAAGAAGATCCAAAT 2
|||||
|||||

RESULT 179
ABK02326
ID ABK02326 standard; RNA; 17 BP.
XX AC ABK02326;
XX DT 12-MAR-2002 (first entry)
XX

```

DE Human NOGO DNzyme #238.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; neurotropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNzyme; inozyme; G-cleaver; ambersyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapeutic-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX Homo sapiens.

OS Synthetic.

OS WO200159103-A2.

XX 16-AUG-2001.

XX 09-FEB-2001; 2001WO-US004273.

XX 11-FEB-2000; 2000US-0181797P.

PR 28-FEB-2000; 2000US-0185516P.

PR 06-MAR-2000; 2000US-0187128P.

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J.

PA (CHOW/) CHOWRIRA B M.

XX Blatt L, Mcswiggen J, Chowrira BM;

XX WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.

XX Claim 88; Page 116; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NOGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or an ambersyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targeting nucleic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune thrombocytopenia, and inflammatory arthropathy. The NOGO-targeting nucleic acid is used to cleave RNA of the NOGO gene in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more therapies. In particular, the NOGO-targeting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease.

CC states which respond to the modulation of NOGO expression. The present sequence is a DNzyme molecule of the invention

CC Sequence 17 BP; 10 A; 2 C; 1 G; 0 T; 4 U; 0 Other;

XX Query Match 1.6%; Score 14.4; DB 1; Length 17;

CC Best Local Similarity 68.8%; Pred. No. 1.5e+02;

XX Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 822 AATAAAACCCCTGTAT 837

DB 1 AAUAAAAACCCUGAU 16

RESULT 180

ABT37806

ID ABT37806 standard; DNA; 17 BP.

XX AC ABT37806;

XX DT 12-JUN-2003 (first entry)

XX Tumour suppression related human fukutin oligo SEQ ID No 3443.

XX Cytostatic; virucide; neuroprotective; neurotropic; neuroleptic; Gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX Homo sapiens.

XX WO2003025175-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004208.

XX 17-SEP-2001; 2001FR-00011978.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313353/30.

XX New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

XX Disclosure; Page 436; 720pp; French.

XX The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention

```
XX SQ Sequence 17 BP; 6 A; 1 C; 3 G; 7 T; 0 U; 0 Other;
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAAT 635
|||||
Db 2 ATCTTAAAGTGTAT 17

RESULT 181
ABT39717
ID ABT39717 standard; DNA; 17 BP.
XX
AC ABT39717;
XX
AC ABT39717;
XX
DT 12-JUN-2003 (first entry)
XX
DE Tumour suppression related human fukutin oligo SEQ ID No 5354.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX
OS Homo sapiens.
XX
PN WO2003025175-A2.
XX
PD 27-MAR-2003.
XX
PF 17-SEP-2002; 2002WO-IB004208.
XX
PR 17-SEP-2001; 2001FR-00011978.
XX
PA (MOLE-) MOLECULAR ENGINES LAB.
XX
PI Telerman A, Anson R, Tuijnder M;
XX
XX WPI; 2003-313353/30.
XX
DR New isolated nucleic acid, useful for treating viral diseases associated
XX with tumors and cell degeneration, also related polypeptides, antibodies
XX and transfected cells.
XX
PS Disclosure; Page 659; 720pp; French.
XX
CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX given in the specification, a sequence containing at least 15 consecutive
XX nucleotides from the 17 mer sequence, a sequence with, after optimal
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX hybridizes to them under highly stringent conditions, or the complement
XX of any of them, or the corresponding RNA. The novel isolated nucleic
XX acids of the invention are useful as probes and primers for detecting,
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX component of a gene chip, in vitro as (anti)sense reagents, and for
XX production of recombinant polypeptides. Any of the nucleic acids,
XX polypeptides, vectors containing the nucleic acids, cells containing the
XX vector or antibodies directed against the polypeptides are useful for
XX preparation of pharmaceuticals for prevention and/or treatment of viral
XX diseases that are characterised by development of tumours or cell
XX degeneration, specifically cancer but also Alzheimer's disease and
XX schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
XX patient samples is useful for diagnosis and/or prognosis of these
XX diseases. The polypeptides can also be used to generate antibodies, and
XX both the polypeptide and antibodies are useful as components of protein
XX chips. The nucleic acid sequences of the invention can be used in gene
XX therapy. This polynucleotide sequence represents a tumour suppression
XX related human fukutin oligonucleotide of the invention
XX
XX Sequence 17 BP; 4 A; 5 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 2 GCAATGTAACTGCTGA 17

RESULT 182
ACF62525
ID ACF62525 standard; DNA; 17 BP.
XX
AC ACF62525;
XX
DT 08-OCT-2003 (first entry)
XX
DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:354.
XX
KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
KW cytostatic; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO2003013534-A2.
XX
PD 20-FEB-2003.
XX
PF 23-JUL-2002; 2002WO-EP008219.
XX
PR 23-JUL-2001; 2001EP-00117608.
XX
PR 24-MAY-2002; 2002EP-00011710.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Heinrich G, Kerb R;
XX
XX WPI; 2003-268144/26.
XX
DR New use of irinotecan for preparation of compositions for treating cancer
XX in subject having genome with variant allele comprising cytochrome p450,
XX subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.
XX
PS Disclosure; Page 42; 86pp; English.
XX
CC The present invention describes the use of irinotecan (I) or its
XX derivative for the preparation of a pharmaceutical composition for
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX cancer, or malignant glioma in a subject having a genome with a variant
XX allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
XX oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
XX cytostatic activity. The therapeutic applications of (I) is improved,
XX since it is possible to individually treat a subject with an appropriate
XX dosage and/or an appropriate derivative of (I). Therefore, undesirable
XX harmful or toxic effects are efficiently avoided. Unnecessary and
XX potentially harmful treatment of those subjects who do not respond to the
XX treatment with substances (nonresponders), as well as the development of
XX drug resistances due to suboptimal drug dosing can be avoided. ACF62200
XX to ACF62751 and ABM34912 to ABM35013 represent sequences used in the
XX exemplification of the present invention
XX
XX Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 2 GCAATGTAACTGCTGA 17
```



## RESULT 183

ACF62524/c  
ID ACF62524 standard; DNA; 17 BP.

XX AC ACF62524;  
XX AC ACF62524;  
DT 08-OCT-2003 (first entry)  
XX DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:353.  
XX DE  
XX KW Cancer: CYP3A5; irinotecan; pharmaceutical; malignant glioma;  
XX KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;  
XX KW cytotatic; PCR primer; ss.  
XX OS Synthetic.  
XX OS  
XX PN WO2003013534-A2.  
XX PN  
XX PD 20-FEB-2003.  
XX XX

XX 23-JUL-2002; 2002WO-EP008219.  
XX PF  
XX PR 23-JUL-2001; 2001EP-00117608.  
XX PR 24-MAY-2002; 2002EP-00011710.  
XX XX

XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX PA

XX PI Heinrich G, Kerb R;  
XX PI

XX XX WPI; 2003-268144/26.  
XX XX

XX XX New use of irinotecan for preparation of compositions for treating cancer  
XX PT in subject having genome with variant allele comprising cytochrome p450,  
XX PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.  
XX PT

XX PS Disclosure; Page 42; 86pp; English.  
XX PS

XX CC The present invention describes the use of irinotecan (I) or its  
XX CC derivative for the preparation of a pharmaceutical composition for  
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
XX CC cancer, or malignant glioma in a subject having a genome with a variant  
XX CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine  
XX CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have  
XX CC cytostatic activity. The therapeutic applications of (I) is improved,  
XX CC since it is possible to individually treat a subject with an appropriate  
XX CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,  
XX CC harmful or toxic effects are efficiently avoided. Unnecessary and  
XX CC potentially harmful treatment of those subjects who do not respond to the  
XX CC treatment with substances (nonresponders), as well as the development of  
XX CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
XX CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the  
XX CC exemplification of the present invention  
XX SQ Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 321 GCAATGTGACTGTCTGA 336  
DB 16 GCAATGTGACTGTCTGA 1

RESULT 184

ADB21195/c  
ID ADB21195 standard; DNA; 17 BP.

XX AC ADB21195;  
XX AC ADB21195;  
DT 20-NOV-2003 (first entry)  
XX XX

XX DE Cancer based on CYP3A5 related nucleic acid SEQ ID NO:354.  
XX DE

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS  
XX PN WO2003013533-A2.  
XX PN

XX XX  
XX DE irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS  
XX PN WO2003013533-A2.  
XX PN

XX DT 20-NOV-2003 (first entry)  
XX DT

XX XX  
XX DE irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS  
XX PN WO2003013533-A2.  
XX PN

XX XX  
XX DE irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS  
XX PN WO2003013533-A2.  
XX PN

DE MRP1 based cancer related nucleic acid SEQ ID NO:353.  
XX XX

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS

XX PN WO2003013533-A2.  
XX PN

XX PD 20-FEB-2003.  
XX PD

XX XX 23-JUL-2002; 2002WO-EP008200.  
XX PF

XX PR 23-JUL-2001; 2001EP-00117608.  
XX PR

XX PR 24-MAY-2002; 2002EP-00011710.  
XX PR

XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX PA

XX PI Heinrich G, Kerb R;  
XX PI

XX XX WPI; 2003-354397/33.  
XX XX

XX CC Use of irinotecan or its derivative for preparation of a pharmaceutical  
XX CC composition for treating cancer in a subject having a genome with a  
XX CC variant allele comprising a multidrug resistance protein 1  
XX CC polynucleotide.  
XX PT  
XX PS Disclosure; Page 51; 100pp; English.  
XX PS

XX CC The present invention describes a method for the use of irinotecan (I) or  
XX CC its derivative for the preparation of a pharmaceutical composition for  
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
XX CC cancer, or malignant glioma in a subject having a genome with a variant  
XX CC allele which comprises a multidrug resistance protein 1 (MRPI)  
XX CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative  
XX CC can be used for the preparation of a pharmaceutical composition for  
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
XX CC cancer, or malignant glioma in a subject, where the subject is a human  
XX CC (preferably African or Asian) or a mouse. The present sequence represents  
XX CC a sequence which is used in the exemplification of the present invention.  
XX SQ Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 321 GCAATGTGACTGTCTGA 336  
DB 16 GCAATGTGACTGTCTGA 1

RESULT 185

ADB21196

ID ADB21196 standard; DNA; 17 BP.

XX AC ADB21196;  
XX AC

XX DT 20-NOV-2003 (first entry)  
XX DT

XX DE MRP1 based cancer related nucleic acid SEQ ID NO:354.  
XX DE

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytostatic; gene;  
XX KW ds.  
XX OS Unidentified.  
XX OS  
XX PN WO2003013533-A2.  
XX PN

XX XX

PD 20-FEB-2003.  
XX  
XX  
XX 23-JUL-2002; 2002WO-EP008200.  
XX  
XX  
XX 23-JUL-2001; 2001EP-00117608.  
XX  
XX 24-MAY-2002; 2002EP-00011710.  
XX  
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX  
XX Heinrich G, Kerb R;  
XX  
XX WPI; 2003-354397/33.  
XX  
XX Use of irinotecan or its derivative for preparation of a pharmaceutical  
XX composition for treating cancer in a subject having a genome with a  
XX variant allele comprising a multidrug resistance protein 1  
XX polynucleotide.  
XX  
XX Disclosure; Page 51; 100pp; English.  
XX  
XX The present invention describes a method for the use of irinotecan (I) or  
XX its derivative for the preparation of a pharmaceutical composition for  
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
XX cancer, or malignant glioma in a subject having a genome with a variant  
XX allele which comprises a multidrug resistance protein 1 (MRP1)  
XX polynucleotide (II). (I) has cytostatic activity. (I) or its derivative  
XX can be used for the preparation of a pharmaceutical composition for  
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
XX cancer, or malignant glioma in a subject, where the subject is a human  
XX (preferably African or Asian) or a mouse. The present sequence represents  
XX a sequence which is used in the exemplification of the present invention.  
XX  
XX Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 321 GCAATGTGACTGCTGA 336  
Db |||||||  
2 GCAATGTGACTGCTGA 17  
RESULT 186  
ADB88285  
ID ADB88285 standard; DNA; 17 BP.  
XX  
XX ADB88285;  
XX  
XX 04-DEC-2003 (first entry)  
XX  
XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:326.  
XX  
XX ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;  
XX colorectal cancer; cervical cancer; gastric cancer; lung cancer;  
XX ovarian cancer; pancreatic cancer; malignant glioma;  
XX uridine diphosphate glycosyltransferase1 member A1.  
XX  
XX Homo sapiens.  
XX  
XX WO2003013536-A2.  
XX  
XX 20-FEB-2003.  
XX  
XX 23-JUL-2002; 2002WO-EP008217.  
XX  
XX 23-JUL-2001; 2001EP-00117608.  
XX  
XX 24-MAY-2002; 2002EP-00011710.  
XX  
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX  
XX Heinrich G, Kerb R;  
XX

DR WPI; 2003-289896/28.  
XX  
XX Use of irinotecan to treat cancer patient by determining if patient has  
XX variant alleles of UGT1A1 gene, administering increased/decreased amounts  
XX of irinotecan based on increased/decreased levels of UGT1A1 gene product.  
XX  
XX Disclosure; Page 55; 107pp; English.  
XX  
XX The invention relates to the novel use of irinotecan to treat a patient  
XX suffering from cancer. This involves determining if the patient has one  
XX or more variant alleles of the UGT1A1 gene, and if the patient has one or  
XX more of such variant alleles, irinotecan is administered in an increased  
XX or decreased amount in comparison to the amount that is administered  
XX without regard to the patient's alleles in the UGT1A1 gene. The invention  
XX has cytostatic activity. A composition of the invention acts as a  
XX topoisomerase I inhibitor. The method is useful for treating a patient,  
XX an animal e.g. mouse or a human, preferably African or Asian, suffering  
XX from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,  
XX pancreatic cancer or malignant glioma. The present sequence is used in  
XX the exemplification of the invention.  
XX  
XX Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 1.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 321 GCAATGTGACTGCTGA 336  
Db |||||||  
2 GCAATGTGACTGCTGA 17  
RESULT 187  
ADB88284/C  
ID ADB88284 standard; DNA; 17 BP.  
XX  
XX ADB88284;  
XX  
XX 04-DEC-2003 (first entry)  
XX  
XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:325.  
XX  
XX ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;  
XX colorectal cancer; cervical cancer; gastric cancer; lung cancer;  
XX ovarian cancer; pancreatic cancer; malignant glioma;  
XX uridine diphosphate glycosyltransferase1 member A1.  
XX  
XX Homo sapiens.  
XX  
XX WO2003013536-A2.  
XX  
XX 20-FEB-2003.  
XX  
XX 23-JUL-2002; 2002WO-EP008217.  
XX  
XX 23-JUL-2001; 2001EP-00117608.  
XX  
XX 24-MAY-2002; 2002EP-00011710.  
XX  
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX  
XX Heinrich G, Kerb R;  
XX  
XX WPI; 2003-289896/28.  
XX  
XX Use of irinotecan to treat cancer patient by determining if patient has  
XX variant alleles of UGT1A1 gene, administering increased/decreased amounts  
XX of irinotecan based on increased/decreased levels of UGT1A1 gene product.  
XX  
XX Disclosure; Page 55; 107pp; English.  
XX  
XX The invention relates to the novel use of irinotecan to treat a patient  
XX suffering from cancer. This involves determining if the patient has one  
XX or more variant alleles of the UGT1A1 gene, and if the patient has one or

CC more of such variant alleles, irinotecan is administered in an increased  
 CC or decreased amount in comparison to the amount that is administered  
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention  
 CC has cytostatic activity. A composition of the invention acts as a  
 CC topoisomerase I inhibitor. The method is useful for treating a patient,  
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering  
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,  
 CC pancreatic cancer or malignant glioma. The present sequence is used in  
 CC the exemplification of the invention.

XX SQ Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
 DB 16 GCAATGTAAGTCTGA 1

RESULT 188  
 ADB97267/c  
 ID ADB97267 standard; DNA; 17 BP.

XX AC ADB97267;  
 XX DT 04-DEC-2003 (first entry)

XX DE Human MDR1 variant allele sequence fragment SEQ ID NO:353.

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
 XX lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1; MDR1;  
 KW TOP1.

XX OS Homo sapiens.

XX PN WO2003013537-A2.

XX PD 20-FEB-2003.

XX PF 23-JUL-2002; 2002WO-EP008218.

XX PR 23-JUL-2001; 2001EP-00117608.

XX PR 24-MAY-2002; 2002EP-00011710.

XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX PI Heinrich G, Kerb R;

XX DR WPI; 2003-268145/26.

XX PT New use of irinotecan for preparation of pharmaceutical compositions for  
 PT treating cancer in subject having genome with variant allele comprising  
 PT multidrug resistance 1 polynucleotide.

XX PS Claim 1; Page 79; 130pp; English.

XX CC The invention relates to the novel use of irinotecan or its derivative  
 CC for the preparation of pharmaceutical compositions for treating  
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or  
 CC malignant glioma in a subject having a genome with a variant allele which  
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition  
 CC of the invention has cytostatic activity. The invention is useful for the  
 CC preparation of pharmaceutical compositions for treating colorectal,  
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant  
 CC glioma in a subject (preferably human, more preferably African or Asian)  
 CC or a mouse. The present sequence is used in the exemplification of the  
 CC invention.

XX SQ Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
 DB 16 GCAATGTAAGTCTGA 1

RESULT 189  
 ADB97268  
 ID ADB97268 standard; DNA; 17 BP.

XX AC ADB97268;

XX DT 04-DEC-2003 (first entry)

XX DE Human MDR1 variant allele sequence fragment SEQ ID NO:354.

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
 XX lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1;  
 KW TOP1.

XX OS Homo sapiens.

XX PN WO2003013537-A2.

XX PD 20-FEB-2003.

XX PF 23-JUL-2002; 2002WO-EP008218.

XX PR 23-JUL-2001; 2001EP-00117608.

XX PR 24-MAY-2002; 2002EP-00011710.

XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX PI Heinrich G, Kerb R;

XX DR WPI; 2003-268145/26.

XX PT New use of irinotecan for preparation of pharmaceutical compositions for  
 PT treating cancer in subject having genome with variant allele comprising  
 PT multidrug resistance 1 polynucleotide.

XX PS Claim 1; Page 79; 130pp; English.

XX CC The invention relates to the novel use of irinotecan or its derivative  
 CC for the preparation of pharmaceutical compositions for treating  
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or  
 CC malignant glioma in a subject having a genome with a variant allele which  
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition  
 CC of the invention has cytostatic activity. The invention is useful for the  
 CC preparation of pharmaceutical compositions for treating colorectal,  
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant  
 CC glioma in a subject (preferably human, more preferably African or Asian)  
 CC or a mouse. The present sequence is used in the exemplification of the  
 CC invention.

XX SQ Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336  
 DB 2 GCAATGTAAGTCTGA 17

RESULT 190  
 ADB92459  
 ID ADB92459 standard; DNA; 17 BP.



CC The invention relates to the isolation of 6327 nucleotide sequences,  
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
 CC sequence having at least 80% identity, after optimal alignment, with the  
 CC nucleotides, a sequence that hybridizes under stringent conditions with  
 CC the nucleotides, or the complement, or corresponding RNA, of the  
 CC nucleotides. The nucleotides are used as probes or primers for detecting,  
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
 CC sense and antisense sequences, of nucleotides involved in tumour  
 CC suppression or reversion, apoptosis and or viral resistance, to produce  
 CC recombinant polypeptides, and to prepare transgenic animals, as  
 CC experimental models. The nucleotides (also vectors containing them and  
 CC cells containing the vectors), the encoded polypeptides and antibodies  
 CC (Ab) against the polypeptide are useful for prevention and/or treatment  
 CC of viral infections or diseases characterized by development of tumours  
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
 CC Analysis of the expression of the nucleotides can be used for diagnosis  
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
 CC also be used to screen for their specific interactive molecules,  
 CC potentially useful for treating diseases associated with abnormal  
 CC expression of the nucleotides.  
 CC  
 XX  
 SQ Sequence 17 BP; 6 A; 1 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 620 ATCTTAAAGTGTAAT 635  
 DB 2 ATCTTAAAGTGTAAT 17  
 |||||  
 |||||

RESULT 193  
 ADI48262  
 ID ADI48262 standard; DNA; 17 BP.  
 XX  
 AC ADI48262;  
 DT 15-APR-2004 (first entry)  
 XX  
 DE Human tumour suppression/reversion-related DNA sequence SeqID765.  
 XX  
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;  
 KW primer; PCR; gene chip; antisense; viral disease; tumour;  
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025177-A2.  
 XX  
 PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004523.  
 XX  
 PR 17-SEP-2001; 2001PR-00011980.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnder M;  
 XX  
 PS WPI; 2003-313354/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; SEQ ID NO 765; 30pp; French.  
 XX  
 CC This invention relates to novel isolated nucleic acid sequences involved  
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
 CC and/or resistance to viruses. The invention may be useful for the  
 CC development of compounds with a cytostatic, virucide, neuroprotective,

CC nootropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, indentifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterized by development of tumours or cell degeneration.  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences

XX Sequence 17 BP; 7 A; 4 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 261 ATCCTTATCCAGAAA 276  
 DB 2 ATCCTTATCCAGAAA 17  
 |||||  
 |||||

RESULT 194  
 ABZ76052/c  
 ID ABZ76052 standard; DNA; 17 BP.  
 XX  
 AC ABZ76052;  
 DT 29-MAY-2003 (first entry)  
 XX

DE Antigen inhibiting mammalian cruciform formation.  
 XX  
 KW Cruciform; DNA replication; antigen; antibacterial; virucide; fungicide;  
 KW protozoazide; antihelminthic; anti-HIV; cytostatic; gene therapy; ds.  
 XX

OS Synthetic.

PN WO2003012097-A2.

PD 13-FEB-2003.

PF 30-JUL-2002; 2002WO-IB003667.

PR 30-JUL-2001; 2001US-0308636P.

XX (PRIC/) PRICE G B.

PA (ZANN/) ZANNIS-HADJIOPOULOS M.

XX Price GB, Zannis-Hadjopoulos M;

XX WPI; 2003-248179/24.

XX Inhibiting DNA replication or cell proliferation, useful for treating  
 PT tumors, comprises contacting a DNA molecule with a nucleic acid antigen  
 PT that specifically hybridizes to a portion of the DNA molecule having dyad  
 PT symmetry.

PS Claim 11; Page 16; 54pp; English.

XX The invention relates to inhibiting DNA replication and involves  
 CC contacting a DNA molecule with a nucleic acid antigen comprising at  
 CC least 12 nucleobases selected from natural nucleobases, modified  
 CC nucleobases, and their mixture. The antigen specifically hybridizes to a  
 CC portion of the DNA molecule having dyad symmetry. The method is useful in  
 CC inhibiting DNA replication and, thus, inhibiting the growth of bacteria,  
 CC virus (e.g. HIV), fungi, protozoa, helminths and insects. The method is  
 CC also useful in inhibiting cell proliferation of tumour cells. The present  
 CC sequence represents an antigen inhibiting the cruciform formation of  
 CC mammalian replication origin

XX Sequence 17 BP; 2 A; 7 C; 0 G; 8 T; 0 U; 0 Other;

```
Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 453 GTGGAATGAAGAAG 468
Db 16 GTGGAGATGAAGAAG 1

RESULT 195
ADK00139/c
ID ADK00139 standard; DNA; 18 BP.
XX
AC ADK00139;
XX
XX
DT 20-MAY-2004 (first entry)
XX
DE Primer of the invention #8.
XX
KW murine genomic region; cancer; Antiinflammatory; Cytostatic;
KW diagnostic reagent; inflammatory disease; acute myeloid leukemia; ss;
KW primer.
XX
OS Synthetic.
XX
PN WO2004016317-A1.
XX
PD 26-FEB-2004.
XX
PF 14-AUG-2003; 2003WO-NL000583.
XX
PR 14-AUG-2002; 2002EP-00078358.
XX
PR 19-SEP-2002; 2002US-00252132.
XX
XX
PA (UYRO-) UNIV ROTTERDAM ERASMUS CENT MEDICAL.
XX
PI Touw IP, Delwel HR, Lowenberg B, Valk PJM;
XX
DR WPI; 2004-203739/19.
XX
XX
PT Use of a murine genomic region involved in the development of cancer for
PT identifying compounds useful for treating or diagnosing cancer or
PT inflammatory diseases.
XX
PS Example 1; SEQ ID NO 8; 106pp; English.
XX
CC The present invention relates to the use of at least one murine genomic
CC region involved in the development of cancer selected from a set of
CC genomic regions listed in the specification for preparing a polypeptide
CC encoded by the region or for the preparation of an inhibitor able to
CC inhibit the transcription product or activity of a polypeptide encoded by
CC the region, or affected by transformations in the region. The murine
CC genomic region involved in the development of cancer or its human
CC homologue or transcription product is useful for preparing its encoded
CC polypeptide or inhibitor for preparing a diagnostic reagent for
CC diagnosing cancer or for preparing a composition for treating
CC inflammatory diseases or cancer, e.g., acute myeloid leukemia. The
CC present sequence represents a primer of the invention.
XX
SQ Sequence 18 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match      1.6%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 380 TCACTCTCAGGAGACC 395
Db 16 TCACTCTCAGGAGACC 1

RESULT 196
AAT81501
ID AAT81501 standard; RNA; 17 BP.
XX
AC AAT81501;
XX
DT 14-DEC-1997 (first entry)
XX
DE Human c-myb hammerhead ribozyme target sequence (nt. position 2703).
KW Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
OS Homo sapiens.
```

```
ID AAT81501 standard; RNA; 17 BP.
XX
AC AAT81501;
XX
DT 14-DEC-1997 (first entry)
XX
DE Human c-myb hammerhead ribozyme target sequence (nt. position 2701).
KW Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
OS Homo sapiens.
XX
PN WO9531541-A2.
XX
PD 23-NOV-1995.
XX
PF 18-MAY-1995; 95WO-US006368.
XX
PR 18-MAY-1994; 94US-00245466.
XX
PR 13-JAN-1995; 95US-00373124.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;
XX
DR WPI; 1996-010927/01.
XX
PT New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,
PT for treating restenosis or cancer.
XX
PS Claim 1; Page 76; 128pp; English.
XX
CC The present sequence represents the preferred target sequence for an
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
CC the human c-myb sequence at the base position indicated in the descriptor
CC line. The c-myb sequence was screened for optimal ribozyme target sites
CC using a computer folding algorithm, and regions of the mRNA which did not
CC form secondary folding structures and contained potential ribozyme
CC cleavage sites were identified. Ribozymes were synthesised and their
CC activities optimised by either varying the length of the binding arms or
CC by modification to prevent degradation by nucleases. The ribozymes cleave
CC the c-myb sequence and can be used to prevent smooth muscle cell
CC hyperproliferation in restenosis, especially after coronary angioplasty,
CC and in cancers
XX
SQ Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 1.6e+02;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAAA 722
Db 3 AUAGUUUUUAAAAA 16

RESULT 197
AAT81503
ID AAT81503 standard; RNA; 17 BP.
XX
AC AAT81503;
XX
DT 14-DEC-1997 (first entry)
XX
DE Human c-myb hammerhead ribozyme target sequence (nt. position 2703).
KW Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
OS Homo sapiens.
```



CC form secondary folding structures and contained potential ribozyme  
 CC cleavage sites were identified. Ribozymes were synthesised and their  
 CC activities optimised by either varying the length of the binding arms or  
 CC by modification to prevent degradation by nucleases. The ribozymes cleave  
 CC the c-myc sequence and can be used to prevent smooth muscle cell  
 CC hyperproliferation in restenosis, especially after coronary angioplasty,  
 CC and in cancers  
 XX  
 SQ Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;  
 Query Match 1.6%; Score 14; DB 1; Length 17;  
 Best Local Similarity 57.1%; Pred. No. 1.6e+02;  
 Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;  
 QY 709 ATAGTTTATATAA 722  
 Db 2 AUAGUUUUAUAAA 15  
 RESULT 200  
 ABK01349/c  
 ID ABK01349 standard; RNA; 17 BP.  
 XX  
 AC ABK01349;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Inozyme #619.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberszyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX  
 XX 11-FEB-2000; 2000US-0181797P.  
 XX  
 XX 28-FEB-2000; 2000US-0185516P.  
 XX  
 XX 06-MAR-2000; 2000US-0187128P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 PI WPI; 2001-607195/69.  
 XX  
 DR  
 XX  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 XX Claim 88; Page 87; 200pp; English.  
 PS  
 XX  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down

CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr  
 CC an amberszyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention  
 XX  
 SQ Sequence 17 BP; 7 A; 3 C; 2 G; 0 T; 5 U; 0 Other;  
 Query Match 1.6%; Score 14; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 674 TGAGAACTGATTT 687  
 Db 17 TGAGAACTGATTT 4  
 RESULT 201  
 ABK00484/c  
 ID ABK00484 standard; RNA; 17 BP.  
 XX  
 AC ABK00484;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Hammerhead Ribozyme #484.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberszyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX



PR 11-FEB-2000; 2000US-0181797P.  
PR 28-FEB-2000; 2000US-0185516P.  
PR 06-MAR-2000; 2000US-0187128P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J.  
PA (CHOW/) CHOWRIRA B M.  
XX  
PI Blatt L, Mcswiggen J, Chowrira BM;  
XX WPI; 2001-607195/69.  
XX  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
PT constructs, which down regulate expression of a CD20 gene or neurite  
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
PT central nervous system injury.  
XX  
XX Claim 88; Page 73; 200pp; English.  
XX  
CC The invention relates to a nucleic acid molecule which down regulates  
CC expression of a CD20 gene and a nucleic acid molecule which down  
CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
CC possessing an NCH motif), a G-cleaver (cleaving RNA with an NYN motif) or  
CC an amberyzyme (cleaving RNA with an NGN triplet), a zynzyme (cleaving RNA  
CC with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA  
CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
CC the cell and treat a patient having a condition associated with the level  
CC of CD20. The treatment may further comprise the use of one or more  
CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
CC treat lymphoma, leukemia, B-cell lymphoma, low-grade or follicular non-  
CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
CC leukemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
CC cell and treat a patient having a condition associated with the level of  
CC NOGO. The treatment may further comprise the use of one or more  
CC therapies. In particular, the NOGO-targetting nucleic acid may be used to  
CC treat central nervous system (CNS) injury and cerebrovascular accident  
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
CC disease, muscular dystrophy, and/or other neurodegenerative disease  
CC states which respond to the modulation of NOGO expression. The present  
CC sequence is a hammerhead ribozyme of the invention  
XX  
SQ Sequence 17 BP; 6 A; 3 C; 2 G; 0 T; 6 U; 0 Other;  
  
Query Match 1.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 674 TGAGAACTGATTT 687  
DB 14 TGAGAACTGATTT 1  
  
RESULT 202  
ABK01996/C  
ID ABK01996 standard; RNA; 17 BP.  
XX  
AC ABK01996;  
XX  
DT 12-MAR-2002 (first entry)  
XX  
DE Human NOGO zynzyme #318.  
XX

Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
DNzyme; inozyme; G-cleaver; amberyzyme; zynzyme; lymphoma; leukaemia;  
B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
inflammatory arthropathy; central nervous system injury;  
cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
Parkinson's disease; ataxia; Huntington's disease;  
Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
  
Homo sapiens.  
Synthetic.  
WO200159103-A2.  
16-AUG-2001.  
09-FEB-2001; 2001WO-US004273.  
11-FEB-2000; 2000US-0181797P.  
28-FEB-2000; 2000US-0185516P.  
06-MAR-2000; 2000US-0187128P.  
(RIBO-) RIBOZYME PHARM INC.  
(BLAT/) BLATT L.  
(MCSW/) MCSWIGGEN J.  
(CHOW/) CHOWRIRA B M.  
Blatt L, Mcswiggen J, Chowrira BM;  
WPI; 2001-607195/69.  
Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
constructs, which down regulate expression of a CD20 gene or neurite  
growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
central nervous system injury.  
Claim 88; Page 101; 200pp; English.  
The invention relates to a nucleic acid molecule which down regulates  
expression of a CD20 gene and a nucleic acid molecule which down  
regulates expression of a neurite growth inhibitor gene (NOGO). The  
nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
possessing an NCH motif), a G-cleaver (cleaving RNA with an NYN motif) or  
an amberyzyme (cleaving RNA with an NGN triplet), a zynzyme (cleaving RNA  
with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA  
of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
Furthermore, it may be contacted with a cell to reduce CD20 activity of  
the cell and treat a patient having a condition associated with the level  
of CD20. The treatment may further comprise the use of one or more  
therapies. In particular, the CD20 targeting nucleic acid may be used to  
treat lymphoma, leukemia, B-cell lymphoma, low-grade or follicular non-  
Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
leukemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
targetting nucleic acid is used to cleave RNA of the NOGO gene in the  
presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
nucleic acid may be contacted with a cell to reduce NOGO activity of the  
cell and treat a patient having a condition associated with the level of  
NOGO. The treatment may further comprise the use of one or more  
therapies. In particular, the NOGO-targetting nucleic acid may be used to  
treat central nervous system (CNS) injury and cerebrovascular accident  
(CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
disease, muscular dystrophy, and/or other neurodegenerative disease  
states which respond to the modulation of NOGO expression. The present  
sequence is a zynzyme molecule of the invention

XX SQ Sequence 17 BP; 6 A; 3 C; 3 G; 0 T; 5 U; 0 Other;  
 Query Match 1.6%; Score 14; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 674 TGAGAACTGATTT 687  
 |||||  
 Db 16 TGAGAACTGATTT 3

RESULT 203  
 ACA08316  
 ID ACA08316 standard; DNA; 17 BP.  
 XX ACA08316;  
 XX 03-JUN-2003 (first entry)  
 XX Necrosis factor kappa B (NFkB) sub-unit modulating DNasezyme #85.  
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;  
 KW G-cleaver; amberyne; cancer; REL-A activity; breast cancer; lung cancer;  
 KW prostate cancer; colorectal cancer; brain cancer; oesophageal cancer;  
 KW stomach cancer; bladder cancer; pancreatic cancer; cervical cancer;  
 KW head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma;  
 KW multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy;  
 KW paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide;  
 KW doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine;  
 KW radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX Synthetic.  
 OS US2002177568-A1.  
 PN US2002177568-A1.  
 XX 28-NOV-2002.  
 PD 23-MAY-2001; 2001US-00864785.  
 XX 07-DEC-1992; 92US-00987132.  
 PR 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX Stinchcomb DT, Mcswiggen J, Draper KG;  
 PI WPI; 2003-340953/32.  
 XX Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.  
 XX Claim 3; Page 48; 72pp; English.  
 XX The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberyne  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,

CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents an enzymatic nucleic acid used to  
 CC modulate the function of a necrosis factor kappa B sub-unit  
 XX SQ Sequence 17 BP; 2 A; 6 C; 5 G; 0 T; 4 U; 0 Other;  
 Query Match 1.6%; Score 14; DB 1; Length 17;  
 Best Local Similarity 71.4%; Pred. No. 1.6e+02;  
 Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 830 CCTGTATGGCACT 843  
 |||||  
 Db 3 CCUGUAGGCACU 16

RESULT 204  
 ACA09130  
 ID ACA09130 standard; RNA; 17 BP.  
 XX ACA09130;  
 XX 03-JUN-2003 (first entry)  
 XX NFkB sub-unit modulating amberyne substrate #293.  
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;  
 KW G-cleaver; amberyne; cancer; REL-A activity; breast cancer; human;  
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
 KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
 KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
 KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
 KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
 KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX Homo sapiens.  
 OS US2002177568-A1.  
 PN US2002177568-A1.  
 XX 28-NOV-2002.  
 PD 23-MAY-2001; 2001US-00864785.  
 XX 07-DEC-1992; 92US-00987132.  
 PR 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX Stinchcomb DT, Mcswiggen J, Draper KG;  
 PI WPI; 2003-340953/32.  
 XX Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for

treating cancer, inflammatory disorders and autoimmune diseases.

Claim 3; Page 57; 72pp; English.

The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFkB), where (I) is an inozyme, zinyne, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

Sequence 17 BP; 2 A; 6 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 17;

Best Local Similarity 71.4%; Pred. No. 1.6e+02;

Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGGCACT 843

||||:|||||

Db 1 CCCGUAUGGCACU 14

RESULT 205

ACC40921

ID ACC40921 standard; DNA; 20 BP.

AC ACC40921;

DT 23-MAY-2003 (first entry)

DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150475.

Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic; antiinflammatory; amyotrophic lateral sclerosis; apoptosis; hyperproliferative disorder; therapy; infection; inflammation; tumour; ss.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers

FT modified\_base 1..20

/\*tag= a

/mod\_base= OTHER

FT /\*note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT methylcytosine"

FT modified\_base 1..5

/\*tag= b

/mod\_base= OTHER

FT /\*note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

/\*tag= c

/mod\_base= OTHER

FT /\*note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT

XX

PN WC2003000707-A2.

XX

PD 03-JAN-2003.

XX

PF 19-JUN-2002; 2002WO-US019664.

XX

PR 21-JUN-2001; 2001US-00888360.

XX

PA (ISIS-) ISIS PHARM INC.

XX

PI Bennett FC, Dobie K;

XX

XX WPI; 2003-184032/18.

DR

XX

PT Novel antisense compounds targeted to nucleic acids encoding human superoxide dismutase 1, for modulating expression of the dismutase and treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX

PS Example 15; Page 77; 107pp; English.

XX

The invention relates to a compound of 8-50 nucleobases in length, targeted to a nucleic acid molecule encoding human superoxide dismutase 1. The compound specifically hybridises with and inhibits the expression of human superoxide dismutase 1 by hybridising with at least an 8-nucleobase portion of the nucleic acid molecule encoding the active site of the enzyme. The activity of compounds of the invention may be described as neuroprotective, cytostatic and antiinflammatory. The mechanism of action of compounds of the invention is antisense inhibition of human superoxide dismutase 1 expression by chimeric phosphorothioate oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. Compounds of the invention are useful for inhibiting the expression of human superoxide dismutase 1 in human cells or tissues, and for treating a disease or condition associated with this enzyme (antisense therapy), especially amyotrophic lateral sclerosis, a disease or condition arising from aberrant apoptosis and a hyperproliferative disorder. It may also be used in diagnostics, therapeutics and as a research reagent, e.g. prophylactically to prevent or delay infection, inflammation or tumour formation. Sequences given in records ACC40890-ACC40957 represent human superoxide dismutase 1 antisense inhibitor oligonucleotides

Sequence 20 BP; 8 A; 2 C; 2 G; 8 T; 0 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.8e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 711 AGTTTATAAACT 724

|||||

Db 3 AGTTTATAAACT 16

RESULT 206

ACC40922

ID ACC40922 standard; DNA; 20 BP.

AC ACC40922;

DT 23-MAY-2003 (first entry)

DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150476.

Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic; antiinflammatory; amyotrophic lateral sclerosis; apoptosis; hyperproliferative disorder; therapy; infection; inflammation; tumour; ss.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers

FT modified\_base 1..20

/\*tag= a

/mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 PN WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 XX Bennett FC, Dobie K;  
 XX  
 XX WPI; 2003-184032/18.  
 XX  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX  
 PS Example 15; Page 77; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 9 A; 2 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. NO. 1.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 711 AGTTTATATAAACT 724  
 DB |||||  
 6 AGTTTATATAAACT 19  
 RESULT 207  
 AAX73200/c  
 ID AAX73200 standard; RNA; 17 BP.  
 XX  
 AC AAX73200;  
 XX  
 XX 28-JUL-1999 (first entry)  
 DT  
 DE Mouse flk-1 VEGF receptor hammerhead ribozyme substrate #633.  
 XX  
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;

KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.  
 XX  
 OS Mus sp.  
 XX  
 PN WO9715662-A2.  
 XX  
 PD 01-MAY-1997.  
 XX  
 XX 25-OCT-1996; 96WO-US017480.  
 PF  
 XX 26-OCT-1995; 95US-0005974P.  
 PR  
 XX 11-JAN-1996; 96US-00584040.  
 PR  
 XX (RISO-) RIBOZYME PHARM INC.  
 PA (CHIR) CHIRON CORP.  
 XX  
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
 PI  
 XX WPI; 1997-259017/23.  
 DR  
 XX  
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.  
 XX  
 PS Claim 4; Page 143; 218pp; English.  
 XX  
 CC The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 17 BP; 5 A; 5 C; 5 G; 0 T; 2 U; 0 Other;  
 Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. NO. 1.7e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 543 TCTACTCTGAGCCCT 559  
 DB |||||  
 17 TGCAGTCTGAGTCCCT 1  
 RESULT 208  
 AAV96545  
 ID AAV96545 standard; RNA; 17 BP.  
 XX  
 AC AAV96545;  
 XX  
 XX 01-MAR-1999 (first entry)  
 DT  
 XX  
 DE Potato citrate synthase target sequence position 858.  
 XX  
 KW Solanidine; glucosyltransferase; potato; citrate synthase; target;  
 KW hammerhead ribozyme; hairpin ribozyme; alkaloid biosynthesis;  
 KW flower formation; cleavage; solanaceous plant; ss.  
 XX  
 OS Solanum tuberosum.  
 XX  
 PN WO9832843-A2.  
 XX  
 PD 30-JUL-1998.  
 XX  
 XX 14-JAN-1998; 98WO-US000738.  
 PF  
 XX

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PR 28-JAN-1997; 97US-0036545P.
PR 28-JAN-1997; 97US-0036599P.
PR 24-NOV-1997; 97US-00979416.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Zwick MG, Mcswiggen JA;
XX
XX WPI; 1998-427939/36.
XX
XX New enzymatic nucleic acid(s) - useful for, e.g. reducing alkaloid
PT biosynthesis or regulating flowering.
XX
XX Claim 53; Page 55; 79pp; English.
XX
XX The present invention describes enzymatic nucleic acid molecules with RNA
CC -cleaving activity (e.g. ribozymes) which are capable of modulating the
CC expression of plant genes: (i) involved in biosynthesis of alkaloids; or
CC (ii) involved in flower formation. AAV95982 to AAV96334, and AAV96335 to
CC AAV96354 represent potato solanidine glucosyltransferase hammerhead and
CC hairpin ribozymes, respectively. AAV95629 to AAV95981, and AAV96355 to
CC AAV96734 represent potato solanidine glucosyltransferase target
CC sequences. AAV96773 to AAV97170, and AAV97171 to AAV97195 represent
CC potato citrate synthase hammerhead and hairpin ribozymes, respectively.
CC AAV96735 to AAV96772, and AAV97196 to AAV97220 represent potato citrate
CC synthase target sequences. Ribozymes of the present invention can be used
CC to inhibit the synthesis of toxic alkaloids in solanaceous plants,
CC particularly potato but also tomato, pepper, aubergine and dicura or to
CC inhibit flowering in potato, lettuce, spinach, cabbage, brussel sprouts,
CC arugula, kale, collards, chard, beet, turnip, sweet potato and turf
CC grass. Also the ribozymes can be used for RNA manipulation in the same
CC way that restriction endonucleases are for DNA, as well as to examine
CC genetic drift and mutations in plants and to detect specific RNA. The
CC ribozymes can be targeted to specific genes or to consensus sequences
CC within a family of related genes, and being catalytic need to be present
CC at only very low concentrations
XX
XX Sequence 17 BP; 4 A; 3 C; 4 G; 0 T; 6 U; 0 Other;
SQ
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 1.7e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
OY 839 GCACCTATTATGAGGCT 855
DB 1 GAACUUCUUAUGGCU 17
RESULT 209
AAFO4937
ID AAF04937 standard; DNA; 17 BP.
XX
XX AAF04937;
AC
XX
XX 16-FEB-2001 (first entry)
DT
XX
XX Hammerhead ribozyme substrate #2453.
DE
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200061729-A2.
PN
XX
XX 19-OCT-2000.
PD
XX
XX 11-APR-2000; 2000WO-US009721.
PF
XX
XX 12-APR-1999; 99US-0129390P.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
PI
XX
XX WPI; 2000-647423/62.
PD
XX
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
KW interferon alpha and erythropoietin.
XX
XX Claim 4; Page 111; 164pp; English.
PS
XX
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
XX Sequence 17 BP; 4 A; 2 C; 4 G; 7 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 778 TGGGTATTAACTTGTC 794
DB 1 TGGGTTTAAACATGTC 17
RESULT 210
AAFO4936
ID AAF04936 standard; DNA; 17 BP.
XX
XX AAF04936;
AC
XX
XX 16-FEB-2001 (first entry)
DT
XX
XX Hammerhead ribozyme substrate #2452.
DE
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200061729-A2.
PN
XX
XX 19-OCT-2000.
PD
XX
XX 11-APR-2000; 2000WO-US009721.
PF
XX
XX 12-APR-1999; 99US-0129390P.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
PI
XX
XX WPI; 2000-647423/62.
PD
XX
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
KW interferon alpha and erythropoietin.
XX
XX Claim 4; Page 111; 164pp; English.
PS
XX
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX

```



CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention  
 XX  
 SQ Sequence 17 BP; 7 A; 3 C; 1 G; 0 T; 6 U; 0 Other;  
 Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 730 AAAATCTCTGTTTCAAT 746  
 DB 17 AAAATGTTTGTGCAAT 1  
 RESULT 213  
 ABA80297/C  
 ID ABA80297 standard; DNA; 17 BP.  
 XX  
 AC ABA80297;  
 XX  
 DT 24-JAN-2002 (first entry)  
 XX  
 DE MLH1 mutation correcting oligonucleotide SEQ ID NO: 3143.  
 XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosia;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cytostatic; antiseizure; antianaemic; haemostatic;  
 KW antileptic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200173002-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-US009761.  
 XX  
 PR 27-MAR-2000; 2000US-0192176P.  
 PR 27-MAR-2000; 2000US-0192179P.  
 PR 01-JUN-2000; 2000US-0208538P.  
 PR 30-OCT-2000; 2000US-0244989P.  
 XX  
 PA (UYDE ) UNIV DELAWARE.  
 XX  
 PI Kmiec EB, Gamper HB, Rice MC;  
 XX  
 DR WPI; 2001-639230/73.  
 XX  
 PT Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.  
 XX  
 PS Claim 7; Page 217; 294pp; English.  
 XX  
 CC The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases

CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention  
 XX  
 SQ Sequence 17 BP; 7 A; 2 C; 2 G; 6 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 676 AGAACTGATTTATGAT 692  
 DB 17 AGATACTCATTATGAT 1  
 RESULT 214  
 ABA80296  
 ID ABA80296 standard; DNA; 17 BP.  
 XX  
 AC ABA80296;  
 XX  
 DT 24-JAN-2002 (first entry)  
 XX  
 DE MLH1 mutation correcting oligonucleotide SEQ ID NO: 3142.  
 XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosia;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cytostatic; antiseizure; antianaemic; haemostatic;  
 KW antileptic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200173002-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-US009761.  
 XX  
 PR 27-MAR-2000; 2000US-0192176P.  
 PR 27-MAR-2000; 2000US-0192179P.  
 PR 01-JUN-2000; 2000US-0208538P.  
 PR 30-OCT-2000; 2000US-0244989P.  
 XX  
 PA (UYDE ) UNIV DELAWARE.  
 XX  
 PI Kmiec EB, Gamper HB, Rice MC;  
 XX  
 DR WPI; 2001-639230/73.  
 XX  
 PT Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.  
 XX  
 PS Claim 7; Page 217; 294pp; English.  
 XX  
 CC The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and



CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
CC various syndromes. The present sequence is one of the gene correcting  
CC oligonucleotides of the invention  
XX  
SQ Sequence 17 BP; 6 A; 2 C; 2 G; 7 T; 0 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.7e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;  
QY 676 AGAACTGATTATGAT 692  
Db 1 AGATACTATTATGAT 17  
RESULT 215  
AAF91029/c  
ID AAF91029 standard; DNA; 17 BP.  
XX  
AC AAF91029;  
XX  
DT 04-MAY-2001 (first entry)  
XX  
DE Human multi drug resistance-1 gene related sequence SEQ ID NO: 116.  
XX  
KW Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;  
KW inflammatory disease; neuronal disease; CNS disease;  
KW cardiovascular disease; PCR primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200109183-A2.  
XX  
PD 08-FEB-2001.  
XX  
PF 28-JUL-2000; 2000WO-EP007314.  
XX  
PR 10-JUL-1999; 99EP-00114938.  
PR 22-FEB-2000; 2000EP-00103361.  
XX  
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX  
PI Brinkmann U, Hoffmeyer S, Eichelbaum M, Roots I;  
XX  
XX WPI; 2001-159855/16.  
XX  
PT New polynucleotide encoding a molecular variant Multi Drug Resistance  
PT (MDR)-1 polypeptide is useful for diagnosing and treating diseases  
PT associated with abnormal MDR-1 expression or function, e.g. cancer.  
XX  
PS Claim 1; Page 101; 154pp; English.  
XX  
CC The present invention provides nucleotides encoding molecular variants of  
CC the human multi drug resistance-1 (MDR-1) protein. These can be used to  
CC identify compounds capable of treating multidrug resistance and  
CC sensitivity interfering resulting from polymorphisms in MDR-1, which can  
CC lead to difficulties in treating cancer, cardiovascular, neuronal,  
CC inflammatory and CNS diseases  
XX  
SQ Sequence 17 BP; 5 A; 5 C; 3 G; 4 T; 0 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.7e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;  
QY 319 GGCAATGTCATGCTG 335  
Db 17 GTGCAATGTAACGCTG 1

RESULT 216  
ABN08968  
ID ABN08968 standard; DNA; 17 BP.  
XX  
AC ABN08968;  
XX  
DT 29-MAY-2002 (first entry)  
XX  
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8960.  
XX  
KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200192524-A2.  
XX  
PD 06-DEC-2001.  
XX  
PF 25-MAY-2001; 2001WO-US016981.  
XX  
PR 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-0266860P.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX  
XX WPI; 2002-179446/23.  
XX  
PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
PS Disclosure; SEQ ID NO 8960; 214pp; English.  
XX  
CC The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption/ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence



SQ Sequence 17 BP; 5 A; 4 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.7e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 183 CTGAAGCCCTGCATGGA 199  
||||| : |||||  
DB 1 CTGAAGCCGACATGGA 17

RESULT 217  
ACN03785  
ID ACN03785 standard; RNA; 17 BP.  
XX ACN03785;  
XX  
XX  
DT 22-APR-2004 (first entry)  
XX  
DE WNV Zinyme substrate SEQ ID NO 3788.  
XX WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;  
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;  
KW encephalitis; myocarditis; meningitis; infection; hepatitis;  
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;  
KW Amberzyme; Zinzyme; ss.  
XX  
OS West Nile Virus.  
XX  
XX WO200268637-A2.  
XX  
PD 06-SEP-2002.  
XX  
PF 19-OCT-2001; 2001WO-US048350.  
XX  
XX 20-OCT-2000; 2000US-024241P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J A.  
XX  
XX Blatt L, Mcswiggen JA;  
XX WPI; 2002-706994/76.  
DR  
PT New nucleic acid molecule that modulates replication of West Nile Virus  
PT (WNV), useful for treating a condition related to WNV infection e.g.  
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.  
XX  
PS Claim 23; SEQ ID NO 3788; 495pp; English.  
XX  
CC The invention relates to nucleic acid molecules that modulate replication  
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for  
CC treating a condition related to WNV infection e.g. pancreatitis,  
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,  
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid  
CC molecule is selected from the group of ribozymes consisting of  
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The  
CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a  
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention  
XX  
XX Sequence 17 BP; 6 A; 2 C; 8 G; 0 T; 1 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 1.7e+02;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 163 GCGAAGCATTAAAGGAC 179

DB 1 GCGAAGCAGGAGGAC 17  
||||| : |||||

RESULT 218  
ADB03682  
ID ADB03682 standard; DNA; 17 BP.  
XX ADB03682;  
AC ADB03682;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MDZ7 scanning oligonucleotide SEQ ID 4668.  
XX  
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN BP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
XX 30-JUL-2002; 2002EP-00016874.  
PF  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
XX Shannon M, Gu Y, Nguyen C;  
PI WPI; 2003-423107/40.  
DR  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MDZ3,  
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 4668; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,  
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MDZ3,  
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 2 A; 8 C; 4 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.7e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 549 CTGAGGCCCTTAACCTC 565  
||||| : |||||  
DB 1 CTGAGGCCCTCAGCTC 17

RESULT 219  
ACD62281  
ID ACD62281 standard; RNA; 17 BP.  
XX

AC ACD62281;  
 XX 23-SEP-2003 (first entry)  
 XX HCV minus strand DNazyme substrate sequence #480.  
 XX  
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;  
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.  
 XX  
 XX Hepatitis C virus.  
 XX  
 XX WO200281494-A1.  
 XX  
 XX 17-OCT-2002.  
 XX  
 XX 26-MAR-2002; 2002WO-US009187.  
 XX  
 XX 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (PAVC/) PAVCO P.  
 PA (LEEP/) LEE P.  
 PA (DRAP/) DRAPER K.  
 PA (ROBE/) ROBERTS E.  
 XX  
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
 PI Draper K, Roberts E;  
 PI WPI: 2003-229207/22.  
 DR  
 XX Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
 PT infection.  
 PT  
 XX Claim 1; Page 283; 387pp; English.  
 PS  
 XX The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,  
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds and  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication and gene  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNazyme or minus strand DNazyme sequences disclosed in the present  
 CC invention  
 XX  
 XX Sequence 17 BP; 6 A; 4 C; 6 G; 0 T; 1 U; 0 Other;  
 Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 1.7e+02;

Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
 QY 271 CAGAAACACGGTGGC 287  
 ||||| ||||| |||||  
 Db 1 CAGAGACACGGGAC 17  
 RESULT 220  
 ADF62659/c  
 ID ADF62659 standard; DNA; 17 BP.  
 XX  
 AC ADF62659;  
 XX  
 XX 12-FEB-2004 (first entry)  
 XX  
 XX Human PCCP1 DNA fragment SEQ ID 4-directed probe - SEQ ID 563.  
 DE  
 XX Chromatin organisation modifier; CHROMO domain; cytostatic; PCCP1;  
 KW prostate cancer candidate protein 1; tumour; gene therapy; vaccine;  
 KW human; ss; probe.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO2003050284-A1.  
 PN  
 XX 19-JUN-2003.  
 PD  
 XX 22-NOV-2002; 2002WO-US037506.  
 PF  
 XX 10-DEC-2001; 2001US-0339764P.  
 PR  
 XX (AMSH ) AMERSHAM BIOSCIENCES SV CORP.  
 PA  
 PI Guo J;  
 PI  
 XX WPI: 2003-532916/50.  
 DR  
 XX  
 PT New prostate cancer candidate protein 1 (PCCP1), useful for preparing a  
 PT composition for treating or preventing a disorder associated with  
 PT decreased or increased expression or activity of PCCP1 e.g., tumor.  
 XX  
 PS Example 2; SEQ ID NO 563; 164pp; English.  
 XX  
 CC The invention relates to a novel isolated nucleic acid that encodes a  
 CC protein with a chromatin organisation modifier (CHROMO) domain. The  
 CC polynucleotide of the invention demonstrates cytostatic activity and may  
 CC be useful for preparing a composition for treating or preventing a  
 CC disorder associated with decreased or increased expression or activity of  
 CC PCCP1 (prostate cancer candidate protein 1), such as a tumour, as well as  
 CC during gene therapy and vaccine production procedures. The current  
 CC sequence is that of the human PCCP1-related DNA fragment SEQ ID 4-  
 CC directed probe of the invention. Note: The current sequence is not shown  
 CC within the specification per se but was retrieved from the WipoWeb  
 CC database.  
 XX  
 SQ Sequence 17 BP; 8 A; 3 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 635 TTGTGTGACTTTTTCAG 651  
 ||||| ||||| |||||  
 Db 17 TTCTGAGACTTTTTCAG 1  
 RESULT 221  
 ADL51188/c  
 ID ADL51188 standard; RNA; 17 BP.  
 XX  
 AC ADL51188;  
 XX  
 XX 20-MAY-2004 (first entry)  
 DT

XX DE Human PTGDR substrate sequence #307.

XX antisenase oligonucleotide; neurite growth inhibitor; NOGO;

KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;

KW protein kinase PKR; cerebrovascular accident;

KW central nervous system injury; CNS injury; spinal cord injury; cancer;

KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;

KW restenosis; asthma; Crohn's disease; diabetes; obesity;

KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;

KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;

KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;

KW substrate; ds.

XX Unidentified.

OS Unidentified.

XX WO200281628-A2.

PN 17-OCT-2002.

XX 03-APR-2002; 2002WO-US010512.

PF 05-APR-2001; 2001US-00827395.

XX 29-MAY-2001; 2001US-0294412P.

PR 28-AUG-2001; 2001US-0315315P.

XX (RIBO-) RIBOZYME PHARM INC.

PA Blatt L, Chowrira B, Haerberli P, Mcswiggen J, Fosnaugh K;

XX WPI; 2003-058513/05.

DR Novel enzymatic nucleic acid that down-regulates expression of neurite

XX growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX Claim 161; SEQ ID NO 4721; 317pp; English.

XX The invention comprises nucleic acids (e.g. antisense oligonucleotides)

CC that down regulate the expression or inhibit the function of a receptor

CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

CC invention are useful for treating: cerebrovascular accident, central

CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

CC disease, lupus, multiple sclerosis, transplant/graft rejection,

CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic

CC drifts and mutations within diseased cells or to detect the presence of a

CC target RNA in a cell. The present RNA sequence represents a human PKR

CC substrate sequence.

XX SQ Sequence 17 BP; 1 A; 10 C; 3 G; 0 T; 3 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.7e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 TGCTGAAGGCGGCGGC 103

DB 17 TGCAGAGGCGGAGGCG 1

RESULT 222

ADL51187/c

ID ADL51187 standard; RNA; 17 BP.

XX AC ADL51187;

XX 20-MAY-2004 (first entry)

XX DE Human PTGDR substrate sequence #306.

XX antisenase oligonucleotide; neurite growth inhibitor; NOGO;

KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;

KW protein kinase PKR; cerebrovascular accident;

KW central nervous system injury; CNS injury; spinal cord injury; cancer;

KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;

KW restenosis; asthma; Crohn's disease; diabetes; obesity;

KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;

KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;

KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;

KW substrate; ds.

XX Unidentified.

OS Unidentified.

XX WO200281628-A2.

PN 17-OCT-2002.

XX 03-APR-2002; 2002WO-US010512.

PF 05-APR-2001; 2001US-00827395.

XX 29-MAY-2001; 2001US-0294412P.

PR 28-AUG-2001; 2001US-0315315P.

XX (RIBO-) RIBOZYME PHARM INC.

PA Blatt L, Chowrira B, Haerberli P, Mcswiggen J, Fosnaugh K;

XX WPI; 2003-058513/05.

DR Novel enzymatic nucleic acid that down-regulates expression of neurite

XX growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX Claim 161; SEQ ID NO 4720; 317pp; English.

XX The invention comprises nucleic acids (e.g. antisense oligonucleotides)

CC that down regulate the expression or inhibit the function of a receptor

CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

CC invention are useful for treating: cerebrovascular accident, central

CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

CC disease, lupus, multiple sclerosis, transplant/graft rejection,

CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic

CC drifts and mutations within diseased cells or to detect the presence of a

CC target RNA in a cell. The present RNA sequence represents a human PKR

CC substrate sequence.

XX SQ Sequence 17 BP; 0 A; 9 C; 5 G; 0 T; 3 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.7e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 91 GAAGGCGGCGGCGCCAG 107

DB 17 GAAGGCGGCGGCGCCG 1

RESULT 223

ADL51536/c

ID ADL51536 standard; RNA; 17 BP.

XX AC ADL51536;

XX 20-MAY-2004 (first entry)

XX DE Human PTGDR substrate sequence #655.  
XX DE antisense oligonucleotide; neurite growth inhibitor; NOGO;  
KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;  
KW protein kinase PKR; cerebrovascular accident;  
KW central nervous system injury; CNS injury; spinal cord injury; cancer;  
KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;  
KW restenosis; asthma; Crohn's disease; diabetes; obesity;  
KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;  
KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;  
KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;  
KW substrate; ds.  
XX OS Unidentified.  
XX OS WO200281628-A2.  
XX PN 17-OCT-2002.  
XX PD 03-APR-2002; 2002WO-US010512.  
XX PF 05-APR-2001; 2001US-00827395.  
XX PR 29-MAY-2001; 2001US-0294412P.  
XX PR 28-AUG-2001; 2001US-0315315P.  
XX XX (RIBO-) RIBOZYME PHARM INC.  
XX PA Blatt L, Chowrira B, Haerberli P, Mcswiggen J, Fosnaugh K;  
XX PI WPI; 2003-058513/05.  
XX DR Novel enzymatic nucleic acid that down-regulates expression of neurite  
XX PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or  
XX PT protein kinase PKR genes, for treating cancer and inflammatory disease.  
XX XX Claim 161; SEQ ID NO 5069; 317bp; English.  
XX XX The invention comprises nucleic acids (e.g. antisense oligonucleotides)  
XX CC that down regulate the expression or inhibit the function of a receptor  
XX CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),  
XX CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the  
XX CC invention are useful for treating: cerebrovascular accident, central  
XX CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,  
XX CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,  
XX CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune  
XX CC disease, lupus, multiple sclerosis, transplant/graft rejection,  
XX CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic  
XX CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The  
XX CC nucleic acids of the invention are also useful for down-regulating the  
XX CC expression of a target gene and as a diagnostic tool to examine genetic  
XX CC drifts and mutations within diseased cells or to detect the presence of a  
XX CC target RNA in a cell. The present RNA sequence represents a human PKR  
XX CC substrate sequence.  
XX XX Sequence 17 BP; 0 A; 9 C; 5 G; 0 T; 3 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. NO. 1.7e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 89 CTGAGGCGGACGGCCC 105  
DB 17 CGGAGGCGGACGGCCC 1  
RESULT 224  
ADI85511  
ID ADI85511 standard; RNA; 17 BP.  
XX AC ADI85511;  
XX DT 03-JUN-2004 (first entry)

XX DE HCV DNazyme substrate sequence #2757.  
XX DE ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;  
KW HCV infection; type I interferon; DNazyme.  
XX OS Hepatitis C virus.  
XX PN US2003125270-A1.  
XX PD 03-JUL-2003.  
XX PF 18-DEC-2000; 2000US-00740332.  
XX PR 18-DEC-2000; 2000US-00740332.  
XX PA (BLAT/) BLATT L.  
XX PA (MCSW/) MCSWIGGEN J.  
XX PA (ROBE/) ROBERTS E.  
XX PA (PAVC/) PAVCO P A.  
XX PA (MACE/) MACEJACK D.  
XX PI Blatt L, Mcswiggen J, Roberts E, Pavco PA, Macejack D;  
XX DR WPI; 2004-031273/03.  
XX DR Enzymatic nucleic acid molecules which specifically cleave RNA derived  
XX PT from hepatitis C virus (HCV), useful for the treatment of HCV infections,  
XX PT especially in combination with type I interferon therapy.  
XX XX Claim 1; SEQ ID NO 2757; 198pp; English.  
XX PS The invention relates to an enzymatic nucleic acid molecule which  
XX CC specifically cleaves RNA derived from hepatitis C virus (HCV), in which  
XX CC the binding arms of the enzymatic nucleic acid molecule comprises  
XX CC sequences complementary to any of the defined substrate sequences given  
XX CC in the specification. The nucleic acid molecule may be administered for  
XX CC the treatment of HCV infections, especially in combination with type I  
XX CC interferons. The present sequence represents a HCV DNazyme substrate  
XX CC sequence.  
XX XX Sequence 17 BP; 6 A; 4 C; 6 G; 0 T; 1 U; 0 Other;  
Query Match 1.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. NO. 1.7e+02;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
QY 271 CAGAAAACACGGTGGCC 287  
DB 1 CAGAAAGACACGGUGGAC 17  
RESULT 225  
ACN72058  
ID ACN72058 standard; DNA; 17 BP.  
XX AC ACN72058;  
XX DT 02-DEC-2004 (first entry)  
XX DE Human GDMPLP-1 probe SEQ ID NO:8960.  
XX XX Human; ss; probe; myosin-like protein-1; hGDMPLP-1;  
KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;  
KW skeletal muscle function.  
XX XX Homo sapiens.  
XX OS US2004137589-A1.  
XX PN 15-JUL-2004.  
XX PD 26-NOV-2003; 2003US-00723361.  
XX PF

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XX 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 05-FEB-2001; 2001US-02668670.
PR 25-MAY-2001; 2001US-00866108.
XX
PA (GUY/) GU Y.
PA (JIYI/) JI Y.
PA (PENN/) PENN S G.
PA (HANZ/) HANZEL D K.
PA (RANK/) RANK D.
PA (CHEN/) CHEN W.
PA (SHAN/) SHANNON M E.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
PI WPI; 2004-533378/51.
XX
XX Novel myosin-like protein-1, useful for treating or preventing disorder
PT associated with decreased expression or activity of human genome-derived
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
PT function.
XX
XX Disclosure; SEQ ID NO 8960; Opp; English.
XX
CC The invention relates to a novel polypeptide (I) comprising a sequence
CC (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully
CC defined in the specification, a fragment of at least 8 amino acids of
CC (S1), 95% deviation from (S1) which are conservative substitutions, and
CC 65% identity to (S1). A polypeptide of the invention acts as an agonist or
CC antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
CC pharmaceutical composition of the invention is useful for treating or
CC preventing a disorder associated with decreased expression or activity of
CC hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
CC The present sequence represents a 17-mer nucleotide, used in the
CC invention for scanning the sequence represented in ACN63103
XX
SQ Sequence 17 BP; 5 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 183 CTGAAGCCCTGCATGGA 199
DB 1 CTGAAGCCGCACATGGA 17
|||||
RESULT 226
AAF50921
ID AAF50921 standard; DNA; 15 BP.
XX
AC AAF50921;
XX
XX 30-MAR-2001 (first entry)
XX
XX IGF-I oligonucleotide #1881.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX
XX Antisense therapy; antiproliferative; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX
KW IGF binding protein; IGFBP-2; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW

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KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
XX
XX Homo sapiens.
XX
XX WO200078341-A1.
XX
XX 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
XX
XX 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 8; Page 73; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, [for insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3], which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 U; 0 Other;
Query Match 1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 1.6e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 531 CATTCCCTTGGATGT 545
DB 1 CATTCCCTTGGACGT 15
|||||
RESULT 227
AAF46599
ID AAF46599 standard; DNA; 15 BP.
XX
AC AAF46599;
XX
XX 30-MAR-2001 (first entry)
XX
XX IGFBP3 oligonucleotide #19.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1-receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW

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KW neovascular condition of the retina; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200078341-A1.  
 PN  
 XX 28-DEC-2000.  
 PD  
 XX  
 XX 21-JUN-2000; 2000WO-AU000693.  
 PF  
 XX 21-JUN-1999; 99US-0140345P.  
 PR  
 XX (MURD-) MURDOCH CHILDRENS RES INST.  
 PA  
 XX Wright CJ, Werther GA, Edmondson SR;  
 PI  
 XX WPI; 2001-041421/05.  
 DR  
 XX  
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisenese nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.  
 PT  
 XX Example 7; Page 44; 201pp; English.  
 PS  
 XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrheoa, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX  
 XX Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 1.6e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 190 CCTGCATGGATTCCA 204  
 Db ||||| ||||| |||||  
 1 CCTGCCTGGATTCCA 15  
 RESULT 228  
 ADO43607  
 ID ADO43607 standard; DNA; 15 BP.  
 XX  
 XX ADO43607;  
 AC  
 XX 29-JUL-2004 (first entry)  
 DT  
 XX Mutant DNA fragment of SOD-1 where L26S mutation occurs.  
 DE  
 XX DNAzyme; dominantly inherited disorder; achondroplasia;  
 KW amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;  
 KW osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO2004038019-A2.  
 PN  
 XX 06-MAY-2004.  
 PD  
 XX 23-OCT-2003; 2003WO-GB004614.  
 PF

XX 23-OCT-2002; 2002GB-00024663.  
 PR (ISIS-) ISIS INNOVATION LTD.  
 XX  
 XX Beeson D, Wood M, Abdelgary A;  
 PI  
 XX WPI; 2004-365523/34.  
 DR  
 XX  
 XX New DNAzyme that cleaves mutant polynucleotides, useful in treating a  
 PT dominantly inherited disorder associated with a mutant allele, such as  
 PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and  
 PT hypercholesterolemia.  
 PT  
 XX Disclosure; Page 8; 24pp; English.  
 PS  
 XX The specification describes a DNAzyme which selectively cleaves a mutant  
 CC polynucleotide by cleaving at a site remote from the mutation site. The  
 CC DNAzyme binds selectively to a mutant allele or its expressed product,  
 CC and comprises a central catalytic motif (Helix II) and two flanking  
 CC regions (helix I and III) where at least one of the flanking regions has  
 CC a polynucleotide sequence complementary to a region that includes the  
 CC mutation in the mutant allele or to that of the expressed product. Both  
 CC flanking regions are complementary to mutated regions of the mutant  
 CC allele or the expressed product. The complement of the mutation is 2 or 3  
 CC nucleotides upstream or downstream of the site of cleavage, preferably in  
 CC helix I. Helix I and III are of different lengths, where helix I is  
 CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.  
 CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.  
 CC At least one of the flanking regions comprises ribonucleic acid. The  
 CC DNAzyme further comprises a stem-loop structure at either or both  
 CC terminus. The DNAzyme is useful in therapy, in particular for the  
 CC manufacture of a medicament for the treatment of a disorder associated  
 CC with a mutant allele in a patient, where the DNAzyme comprises a central  
 CC catalytic motif and two flanking substrate-binding regions, and where at  
 CC least one flanking region binds at the site of mutation in the mutant  
 CC allele or its expressed product and the catalytic motif cleaves at a site  
 CC remote from the site of mutation. The disorder is a dominantly inherited  
 CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1  
 CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta  
 CC and SCCMS. ADO43606-ADO43607 represent the wild type and mutant DNA  
 CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene  
 CC where a L26S mutation occurs, and causes amyotrophic lateral sclerosis.  
 CC These sequences are suitable for the design of DNAzymes of the invention  
 CC (see ADO43608).  
 XX  
 XX Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 1.6e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 437 GATGACTGGGCAAA 451  
 Db ||||| ||||| |||||  
 1 GATGACTCGGCAAA 15  
 RESULT 229  
 ADO43602  
 ID ADO43602 standard; DNA; 15 BP.  
 XX  
 XX ADO43602;  
 AC  
 XX 29-JUL-2004 (first entry)  
 DT  
 XX DNA fragment from DNAzyme for SOD-1 G12R mutation.  
 DE  
 XX DNAzyme; dominantly inherited disorder; achondroplasia;  
 KW amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;  
 KW osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.  
 XX  
 OS Homo sapiens.  
 XX

PN WO2004038019-A2.  
 XX  
 PD 06-MAY-2004.  
 XX  
 XX 23-OCT-2003; 2003WO-GB004614.  
 XX  
 XX 23-OCT-2002; 2002GB-00024663.  
 XX  
 XX (ISIS-) ISIS INNOVATION LTD.  
 XX  
 XX Beeson D, Wood M, Abdelgany A;  
 XX WPI; 2004-365523/34.  
 XX  
 XX New DNzyme that cleaves mutant polynucleotides, useful in treating a  
 PT dominantly inherited disorder associated with a mutant allele, such as  
 PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and  
 PT hypercholesterolemia.  
 XX  
 XX Disclosure; Page 7; 24pp; English.  
 PS  
 XX The specification describes a DNzyme which selectively cleaves a mutant  
 CC polynucleotide by cleaving at a site remote from the mutation site. The  
 CC DNzyme binds selectively to a mutant allele or its expressed product,  
 CC and comprises a central catalytic motif (Helix II) and two flanking  
 CC regions (Helix I and III) where at least one of the flanking regions has  
 CC a polynucleotide sequence complementary to a region that includes the  
 CC mutation in the mutant allele or to that of the expressed product. Both  
 CC flanking regions are complementary to mutated regions of the mutant  
 CC allele or the expressed product. The complement of the mutation is 2 or 3  
 CC nucleotides upstream or downstream of the site of cleavage, preferably in  
 CC Helix I. Helix I and III are of different lengths, where Helix I is  
 CC shorter than Helix III, and their length is 21-7 or 15-8 nucleotides.  
 CC Helix I preferably comprises 9 nucleotides and Helix III 13 nucleotides.  
 CC At least one of the flanking regions comprises ribonucleic acid. The  
 CC DNzyme further comprises a stem-loop structure at either or both  
 CC terminus. The DNzyme is useful in therapy, in particular for the  
 CC manufacture of a medicament for the treatment of a disorder associated  
 CC with a mutant allele in a patient, where the DNzyme comprises a central  
 CC catalytic motif and two flanking substrate-binding regions, and where at  
 CC least one flanking region binds at the site of mutation in the mutant  
 CC allele or its expressed product and the catalytic motif cleaves at a site  
 CC remote from the site of mutation. The disorder is a dominantly inherited  
 CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1  
 CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta  
 CC and SCCMS. The present sequence represents a fragment from a DNzyme for  
 CC the Cu/Zn superoxide dismutase (SOD-1) gene where a G12R mutation occurs  
 CC and causes amyotrophic lateral sclerosis.  
 XX  
 SQ Sequence 15 BP; 2 A; 6 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 1.6e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 95 GCGCAGCGCCCACTG 109  
 Db 1 GCGCAGCGCCCACTG 15  
 RESULT 230  
 AAS15510/C  
 ID AAS15510 standard; DNA; 16 BP.  
 XX  
 XX AAS15510;  
 AC  
 XX  
 XX 16-JAN-2002 (first entry)  
 DT  
 XX N-acetyltransferase 2 (NAT2) G191A SNP hybridisation probe #7.  
 DE  
 XX N-acetyltransferase 2; NAT2; human; genotyping; SNP; G191A; probe;  
 KW single nucleotide polymorphism; ss.  
 XX

OS Synthetic.  
 XX  
 XX Key Location/Qualifiers  
 FT variation /tag= a  
 FT /standard\_name= "Single nucleotide polymorphism"  
 FT variation /tag= b  
 FT /standard\_name= "Single nucleotide polymorphism"  
 FT  
 XX WO200166804-A2.  
 PN  
 XX 13-SEP-2001.  
 PD  
 XX 09-MAR-2001; 2001WO-US007775.  
 PF  
 XX 09-MAR-2000; 2000US-00521983.  
 PR  
 XX 10-JUL-2000; 2000US-00613517.  
 XX  
 XX (PROT-) PROTOGENE LAB INC.  
 PA  
 XX Cronin MT, Frueh F, Brennan TM;  
 PI WPI; 2001-616243/71.  
 XX  
 XX Determining sequence variation in, or monitoring expression of genes in  
 PT target nucleic acid for high-throughput genotyping of (un)known  
 PT polymorphisms/mutations, comprises hybridization pattern differences  
 PT between target and probe sequences.  
 XX  
 XX Example 5; Page 35; 60pp; English.  
 XX  
 XX The invention relates to a method of simultaneously determining the  
 CC presence of 2 or more sequence variations in target nucleic acids, or  
 CC simultaneously monitoring expression of 2 or more genes. The method  
 CC comprises determining differences in hybridisation between the target  
 CC nucleic acid and immobilised probes, where differences in hybridisation  
 CC between indicates sequence variations or transcription levels. The method  
 CC is used for simultaneously determining the presence or absence of two or  
 CC more sequence variations in target nucleic acids or simultaneously  
 CC monitoring expression of two or more genes in target nucleic acids. The  
 CC methods are applicable to high-throughput genotyping of known and unknown  
 CC polymorphisms and mutations. The method maximises the information yield  
 CC of hybridisation-based array applications by increasing the number of  
 CC informative array-immobilised polynucleotide probes. The present sequence  
 CC represents N-acetyltransferase 2 (NAT2) G191A single nucleotide  
 CC polymorphism (SNP) hybridisation probe #7  
 XX  
 SQ Sequence 16 BP; 1 A; 6 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.7e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 272 AGAAACACGGTGGG 286  
 Db 15 AGAAACACGGTGGG 1  
 RESULT 231  
 ABT13505/C  
 ID ABT13505 standard; DNA; 16 BP.  
 XX  
 XX ABT13505;  
 AC  
 XX  
 XX 07-FEB-2003 (first entry)  
 DT  
 XX Liver regeneration-related gene panel PCR primer #33.  
 DE  
 XX PCR; primer; ss; liver regeneration; gene panel; expression profile;  
 KW drug screening; drug development; hepatitis; liver transplantation.  
 XX  
 XX Unidentified.

XX WO200277222-A1.  
 XX 03-OCT-2002.  
 XX 13-MAR-2002; 2002WO-JP002372.  
 XX 13-MAR-2001; 2001JP-00070940.  
 XX (AJIN ) AJINOMOTO CO INC.  
 XX Yokoya F, Okutsu T, Mori M, Takahara Y, Fukuda H, Aburatani H;  
 PI Sonaka I;  
 XX WPI; 2003-018922/01.  
 XX Gene panel participating in liver regeneration, applicable in providing  
 PT expression data, diagnosis and development of drugs for promoting liver  
 PT regeneration e.g. after transplantation or removal of liver during  
 PT cancer.  
 XX Claim 19; Page 55; 101pp; Japanese.  
 XX The invention comprises a gene panel constructed from the expression  
 CC profile of known genes which show a change in expression level between  
 CC normal liver cells and liver cells under regeneration. The gene panel is  
 CC useful for providing expression data and screening/development of drugs  
 CC for liver regeneration (e.g. when treating hepatitis, after  
 CC transplantation or removal of the liver during cancer or hepatitis  
 CC therapy). The present DNA sequence represents a PCR primer used in the  
 CC invention  
 XX  
 SQ Sequence 16 BP; 3 A; 5 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.7e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAA 324  
 DB 15 TGGAGACTTGGGCAA 1

RESULT 232  
 ABZ68236  
 ID ABZ68236 standard; DNA; 16 BP.  
 XX  
 AC ABZ68236;  
 XX  
 DT 07-APR-2003 (first entry)  
 XX  
 DE Probe/PCR primer for conserved region of the spoOA gene of bacteria.  
 XX  
 KW spoOA gene; spore-forming bacteria; Bacillus; Clostridium;  
 KW sporulation gene; paper product; paper making; probe; PCR; primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200292853-A1.  
 XX  
 PD 21-NOV-2002.  
 XX  
 PF 15-MAY-2001; 2001WO-US015793.  
 XX  
 PR 15-MAY-2001; 2001WO-US015793.  
 XX  
 PA (HERC ) HERCULES INC.  
 XX  
 PI Breen AW, Singleton FL;  
 XX  
 DR WPI; 2003-175079/17.  
 XX  
 PT Testing a sample for the presence of spore forming bacteria, by combining

PT two primers with sample, hybridizing the primer to the target spore  
 PT forming bacterial spoOA gene, and detecting the hybridized product.  
 XX  
 PS Claim 5; Page 16; 40pp; English.  
 XX  
 CC PCR primers and probes ABZ68235-42 are based on highly conserved regions  
 CC of the spoOA gene of the spore-forming bacteria Bacillus and Clostridium.  
 CC They are used for detecting the presence of spore-forming bacteria in a  
 CC sample. The probes are useful for testing a sample comprising air, soil,  
 CC water, blood, faecal matter, starch, protein or an epichlorohydrin  
 CC reaction product for the presence of spore forming bacteria. They are  
 CC useful for the systematic identification of sporulation genes in spore-  
 CC forming bacteria. They are useful for detecting spore forming bacteria  
 CC such as Bacillus megaterium, B. licheniformis or B. pertussis in paper  
 CC products and paper making processes, protein-containing samples, and  
 CC medical diagnostic applications  
 XX  
 SQ Sequence 16 BP; 8 A; 2 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.7e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 429 AAAAAGCAGATGACT 443  
 DB 2 AAAAAGCAGTGTGACT 16

RESULT 233  
 ADJ92751  
 ID ADJ92751 standard; DNA; 16 BP.  
 XX  
 AC ADJ92751;  
 XX  
 DT 06-MAY-2004 (first entry)  
 XX  
 DE Bacillus cereus spoOA gene amplifying forward PCR primer #1.  
 XX  
 KW Sporulation gene; spore forming bacteria; SFB; paper pulp; spoOA gene;  
 KW PCR; primer; ss.  
 XX  
 OS Bacillus cereus.  
 XX  
 PN US2004014122-A1.  
 XX  
 PD 22-JAN-2004.  
 XX  
 PF 27-JUN-2003; 2003US-00608062.  
 XX  
 PR 27-MAY-1998; 98US-00085359.  
 PR 20-JUL-1999; 99US-00356677.  
 PR 27-JAN-2000; 2000US-00492135.  
 XX  
 PA (BREE/) BREEN A W.  
 PA (SING/) SINGLETON F L.  
 XX  
 PI Breen AW, Singleton FL;  
 XX  
 DR WPI; 2004-098822/10.  
 XX  
 PT Novel primer pair useful for identifying sporulation genes in spore  
 PT forming bacteria and detecting the presence of spore forming bacteria in  
 PT samples e.g. paper pulp.  
 XX  
 PS Claim 1; SEQ ID NO 2; 19pp; English.  
 XX  
 CC The invention relates to methods for the systematic identification of  
 CC sporulation genes in spore forming bacteria (SFB). The method is useful  
 CC for identifying sporulation genes in spore forming bacteria. It is also  
 CC useful for detecting the presence of SFB in sample e.g., paper pulp. The  
 CC present sequence is a PCR primer used for amplifying spore forming  
 CC bacteria spoOA gene. This sequence is used to illustrate the method of  
 CC the invention.



XX SQ Sequence 16 BP; 8 A; 2 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.7e+02;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 429 AAAAGCAGTGACT 443  
 Db 2 AAAAGCAGTTGACT 16  
 RESULT 234  
 AAC88558  
 ID AAC88558 standard; RNA; 13 BP.  
 XX AC AAC88558;  
 XX DT 02-MAR-2001 (first entry)  
 XX DE Anti-SOD-1 295 coding sequence fragment.  
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;  
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.  
 XX OS Mus sp.  
 XX PN WO200066780-A2.  
 XX PD 09-NOV-2000.  
 XX PF 28-APR-2000; 2000WO-US011509.  
 XX PR 30-APR-1999; 99US-0131942P.  
 XX PA (UYFL ) UNIV FLORIDA.  
 XX PI Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;  
 XX DR WPI; 2000-687548/67.  
 XX PT Novel methods for identifying genes with selected functions comprising  
 XX PT contacting genes with a library of ribozymes, useful for identifying  
 XX PT genes involved in, e.g. retinal disease, learning or memory and tumor  
 XX PT suppression.  
 XX PS Claim 16; Fig 36; 11pp; English.  
 XX CC The present invention relates to a method for identifying a gene with a  
 CC selected function comprising contacting genes with a library of ribozymes  
 CC and identifying at least 1 ribozyme that alters the selected function of  
 CC the gene. The present sequence is a target sequence used in the present  
 CC invention. The methods (and ribozymes) are useful for identifying novel  
 CC genes involved in retinal degradation, retinal disease, learning or  
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for  
 CC producing non-human animal models of diseases  
 XX SQ Sequence 13 BP; 3 A; 1 C; 3 G; 0 T; 6 U; 0 Other;  
 Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 53.8%; Pred. No. 1.5e+02;  
 Matches 7; Conservative 6; Mismatches 0; Indels 0; Gaps 0;  
 QY 354 ATGTGCTATTGA 366  
 Db 1 AUGUGCUAUGA 13  
 RESULT 235  
 AAC88562  
 ID AAC88562 standard; RNA; 13 BP.  
 XX AC AAC88562;

XX DT 02-MAR-2001 (first entry)  
 XX DE Anti-SOD-1 429 coding sequence fragment.  
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;  
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.  
 XX OS Mus sp.  
 XX PN WO200066780-A2.  
 XX PD 09-NOV-2000.  
 XX PF 28-APR-2000; 2000WO-US011509.  
 XX PR 30-APR-1999; 99US-0131942P.  
 XX PA (UYFL ) UNIV FLORIDA.  
 XX PI Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;  
 XX DR WPI; 2000-687548/67.  
 XX PT Novel methods for identifying genes with selected functions comprising  
 XX PT contacting genes with a library of ribozymes, useful for identifying  
 XX PT genes involved in, e.g. retinal disease, learning or memory and tumor  
 XX PT suppression.  
 XX PS Claim 16; Fig 36; 11pp; English.  
 XX CC The present invention relates to a method for identifying a gene with a  
 CC selected function comprising contacting genes with a library of ribozymes  
 CC and identifying at least 1 ribozyme that alters the selected function of  
 CC the gene. The present sequence is a target sequence used in the present  
 CC invention. The methods (and ribozymes) are useful for identifying novel  
 CC genes involved in retinal degradation, retinal disease, learning or  
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for  
 CC producing non-human animal models of diseases  
 XX SQ Sequence 13 BP; 2 A; 1 C; 6 G; 0 T; 4 U; 0 Other;  
 Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 69.2%; Pred. No. 1.5e+02;  
 Matches 9; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 488 GGAAGTCGTTGG 500  
 Db 1 GGAAGUCGUUUGG 13  
 RESULT 236  
 AAC88560  
 ID AAC88560 standard; RNA; 13 BP.  
 XX AC AAC88560;  
 XX DT 02-MAR-2001 (first entry)  
 XX DE Anti-SOD-1 359 coding sequence fragment.  
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;  
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.  
 XX OS Mus sp.  
 XX PN WO200066780-A2.  
 XX PD 09-NOV-2000.  
 XX PF 28-APR-2000; 2000WO-US011509.  
 XX PR 30-APR-1999; 99US-0131942P.

XX (UYFL ) UNIV FLORIDA.  
 XX Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;  
 XX WPI; 2000-687548/67.  
 XX Novel methods for identifying genes with selected functions comprising  
 PT contacting genes with a library of ribozymes, useful for identifying  
 PT genes involved in, e.g. retinal disease, learning or memory and tumor  
 PT suppression.  
 XX Claim 16; Fig 36; 11pp; English.  
 XX The present invention relates to a method for identifying a gene with a  
 CC selected function comprising contacting genes with a library of ribozymes  
 CC and identifying at least 1 ribozyme that alters the selected function of  
 CC the gene. The present sequence is a target sequence used in the present  
 CC invention. The methods (and ribozymes) are useful for identifying novel  
 CC genes involved in retinal degradation, retinal disease, learning or  
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for  
 CC producing non-human animal models of diseases  
 XX Sequence 13 BP; 3 A; 2 C; 5 G; 0 T; 3 U; 0 Other;  
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 76.9%; Pred. No. 1.5e+02;  
 Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
 QY 418 GGTGGTCCATGAA 430  
 DB 1 GGUGGUCCAUGAA 13  
 RESULT 237  
 AAC88556  
 ID AAC88556 standard; RNA; 13 BP.  
 AC AAC88556;  
 XX 02-MAR-2001 (first entry)  
 DE Anti-SOD-1 186 coding sequence fragment.  
 XX Ribozyme; retinal degradation; retinal disease; learning; memory;  
 KW amyotrophic lateral sclerosis; tumour suppression; ss.  
 XX Mus sp.  
 OS WO200066780-A2.  
 PN 09-NOV-2000.  
 PD 28-APR-2000; 2000WO-US011509.  
 PF 30-APR-1999; 99US-0131942P.  
 PR (UYFL ) UNIV FLORIDA.  
 PA Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;  
 PI WPI; 2000-687548/67.  
 XX Novel methods for identifying genes with selected functions comprising  
 PT contacting genes with a library of ribozymes, useful for identifying  
 PT genes involved in, e.g. retinal disease, learning or memory and tumor  
 PT suppression.  
 XX Claim 16; Fig 36; 11pp; English.  
 XX The present invention relates to a method for identifying a gene with a  
 CC selected function comprising contacting genes with a library of ribozymes  
 CC and identifying at least 1 ribozyme that alters the selected function of

CC the gene. The present sequence is a target sequence used in the present  
 CC invention. The methods (and ribozymes) are useful for identifying novel  
 CC genes involved in retinal degradation, retinal disease, learning or  
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for  
 CC producing non-human animal models of diseases  
 XX Sequence 13 BP; 2 A; 5 C; 3 G; 0 T; 3 U; 0 Other;  
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 76.9%; Pred. No. 1.5e+02;  
 Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
 QY 245 GCAGTCTCACT 257  
 DB 1 GCAGGUCCACU 13  
 RESULT 238  
 ABF54653  
 ID ABF54653 standard; DNA; 13 BP.  
 XX ABF54653;  
 AC ABF54653;  
 XX 21-FEB-2002 (first entry)  
 DT Oligonucleotide SEQ ID NO 154650 for detecting SNP TSC0039096.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 DE peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 OS WO200177384-A2.  
 PN 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 PR (EPIG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 PT Claim 1; SEQ ID NO 154650; 29pp + Sequence Listing; German.  
 PS This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT2073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 527 TAACATTCCTT 539

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 201017; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI99989 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences)

Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity. 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 215 TTGTGGAGATAATA 227  
DB 1 TTGTGGAGATAATA 13  
|||||

RESULT 241  
ABH01041/c  
ID ABH01041 standard; DNA; 13 BP.  
XX ABH01041;  
AC  
AC  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 201018 for detecting SNP TSC0049445.  
XX  
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.  
(EPIG-) EPIGENOMICS AG.  
Olek A, Piepenbrock C, Berlin K;  
WPI; 2001-657177/75.  
Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 201018; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABG99989, ABF00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 215 TTGTGGAGATAATA 227  
Db 13 TTGTGGAGATAATA 1  
XX  
RESULT 242  
ABF54652/c  
ID ABF54652 standard; DNA; 13 BP.  
XX  
AC ABF54652;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 154649 for detecting SNP TSC0039096.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB0000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 154649; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABG99989, ABF00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 215 TTGTGGAGATAATA 227  
Db 13 TTGTGGAGATAATA 1  
XX  
RESULT 242  
ABF54652/c  
ID ABF54652 standard; DNA; 13 BP.  
XX  
AC ABF54652;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 154649 for detecting SNP TSC0039096.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB0000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 154649; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABG99989, ABF00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 215 TTGTGGAGATAATA 227  
Db 13 TTGTGGAGATAATA 1  
XX  
RESULT 242  
ABF54652/c  
ID ABF54652 standard; DNA; 13 BP.  
XX  
AC ABF54652;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 154649 for detecting SNP TSC0039096.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB0000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 154649; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABG99989, ABF00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 215 TTGTGGAGATAATA 227  
Db 13 TTGTGGAGATAATA 1  
XX  
RESULT 242  
ABF54652/c  
ID ABF54652 standard; DNA; 13 BP.  
XX  
AC ABF54652;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 154649 for detecting SNP TSC0039096.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB0000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 154649; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABG99989, ABF00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 215 TTGTGGAGATAATA 227  
Db 13 TTGTGGAGATAATA 1  
XX  
RESULT 242  
ABF54652/c  
ID ABF54652 standard; DNA; 13 BP.  
XX  
AC ABF54652;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 154649 for detecting SNP TSC0039096.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB0000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 154649; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP

XX SQ Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 706 TGTATAGTTTAT 718  
 DB 1 TGTATAGTTTAT 13

RESULT 244  
 AAX54605  
 ID AAX54605 standard; DNA; 15 BP.  
 XX  
 AC AAX54605;  
 DT 05-JUL-1999 (first entry)  
 XX  
 DE Bosinophil peroxidase antisense oligonucleotide fragment.  
 XX  
 KW Antisense oligonucleotide; multiple target; antisense treatment;  
 KW impaired respiration; inflammation; lung disease;  
 KW pulmonary vasoconstriction; inflammation; allergic rhinitis;  
 KW acute asthma; allergy; asthma; impaired respiration;  
 KW respiratory distress syndrome; pain; cystic fibrosis;  
 KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;  
 KW pulmonary hypertension; pulmonary vasoconstriction; emphysema;  
 KW colon cancer; breast cancer; lung cancer; pancreatic cancer;  
 KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;  
 KW prostate cancer; ss.  
 XX  
 OS Synthetic.  
 OS  
 PN WO9913886-A1.  
 XX  
 PD 25-MAR-1999.  
 XX  
 PF 17-SEP-1998; 98WO-US019419.  
 XX  
 PR 17-SEP-1997; 97US-0059160P.  
 PR 09-JUN-1998; 98US-00093972.  
 XX  
 PA (UYEC-) UNIV EAST CAROLINA.  
 XX  
 PI Nyce JW;  
 XX  
 DR WPI; 1999-229400/19.  
 XX  
 XX New antisense oligonucleotides used in treatment of, e.g. pulmonary  
 PT vasoconstriction.  
 PT  
 PS Disclosure; Page 46; 120pp; English.  
 XX

The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impaired respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as

CC well as all types of cancers which may metastasize or have metastasized  
 CC to the lungs, including breast and prostate cancer  
 XX  
 SQ Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 13; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 12 GGGTTTCCGTTG 24  
 DB 3 GGGTTTCCGTTG 15

RESULT 245  
 AAX34052  
 ID AAX34052 standard; DNA; 15 BP.  
 XX  
 AC AAX34052;  
 XX  
 DT 28-JUL-2000 (first entry)  
 XX  
 DE Human adenosine receptor related polynucleotide SEQ ID NO:1741.  
 XX  
 KW Human; adenosine receptor; low adenosine antisense oligonucleotide;  
 KW phosphorothioate; impaired respiration; inflammation; allergy;  
 KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;  
 KW antiallergic; antiasmatic; cyostatic; analgesic; impaired airway;  
 KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;  
 KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;  
 KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;  
 KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 PN WO200009525-A2.  
 XX  
 PD 24-FEB-2000.  
 XX  
 PF 03-AUG-1999; 99WO-US017712.  
 XX  
 PR 03-AUG-1998; 98US-0095212P.  
 XX  
 PA (UYEC-) UNIV EAST CAROLINA.  
 XX  
 PI Nyce JW;  
 XX  
 DR WPI; 2000-205971/18.  
 XX  
 XX New antisense oligonucleotides useful for treating e.g. pulmonary  
 PT vasoconstriction, inflammation, allergies, asthma, hypertension,  
 PT bronchitis, emphysema, respiratory distress syndrome, ischemia or  
 PT cancers.  
 XX  
 PS Disclosure; Page 481; 1343pp; English.  
 XX

The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasmatic, cyostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, impaired respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas, and cancers which may metastasize to the lungs, including breast and prostate cancer. The reduction of the adenosine content of ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAX32313 to AAX35312 represent the



CC involved in disorders such as schizophrenia, Parkinson's and myoclonus  
 CC dystonia (MD). This information would be useful for studying the  
 CC biological function of DRD2 as well as in identifying drugs targeting  
 CC this protein for the treatment of disorders related to its abnormal  
 CC expression or function. Polymorphisms in the DRD2 gene affect the  
 CC advancement of active and functional polypeptides. Therefore it is  
 CC advantageous to detect polymorphisms in the DRD2 gene and how those  
 CC polymorphisms are combined in different copies of the gene. AAF70261 to  
 CC AAF70308 represent human DRD2 allele specific oligonucleotide probes, and  
 CC AAF70309 to AAF70404 represent human DRD2 allele specific oligonucleotide  
 CC primers which are used in the detection of DRD2 polymorphisms. AAF70405  
 CC to AAF70452 represent oligonucleotide primers for the detection of human  
 CC DRD2 polymorphisms which are given in the exemplification of the present  
 CC invention. AAF70453 to AAF70538 represent PCR primers for the human DRD2  
 CC gene which are used in examples from the present invention  
 XX  
 SQ Sequence 15 BP; 4 A; 3 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 737 CTGTTTCAATGAC 749  
 Db 1 CTGTTTCAATGAC 13  
 |||||

RESULT 248  
 ABZ95868  
 ID ABZ95868 standard; DNA; 15 BP.  
 XX  
 AC ABZ95868;  
 XX  
 DT 17-OCT-2003 (first entry)  
 XX  
 DE Human eosinophil peroxidase antisense fragment no.1728.  
 XX  
 KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antisthmatic; hypotensive; immunosuppressive; cytotatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.

OS Homo sapiens.  
 XX  
 PN WO200285308-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PF 23-APR-2002; 2002WO-US013135.  
 XX  
 PR 24-APR-2001; 2001US-0286137P.  
 XX  
 PA (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 DR WPI; 2003-229219/22.  
 XX

Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.

PS Disclosure; SEQ ID NO 11110; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or

CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antisthmatic, hypotensive,  
 CC immunosuppressive, and cytotatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGGGTTCCGTTG 24  
 Db 3 GGGGTTCCGTTG 15  
 |||||

RESULT 249  
 ABD19123  
 ID ABD19123 standard; DNA; 15 BP.  
 XX  
 AC ABD19123;  
 XX  
 DT 29-JUL-2004 (first entry)  
 XX  
 DE Human eosinophil peroxidase DNA fragment 1728.  
 XX  
 KW Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; antiallergic; antiinflammatory; antisthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytotatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ds.

OS Homo sapiens.  
 XX  
 PN WO200285309-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PF 23-APR-2002; 2002WO-US013143.  
 XX  
 PR 24-APR-2001; 2001US-0286036P.  
 XX  
 PA (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 DR WPI; 2003-093058/08.  
 XX

Pharmaceutical composition for treating asthma, has antisense  
 PT oligonucleotide containing less percentage of adenosine, targeted to  
 PT nucleic acids associated with lung airway or lung dysfunction, and  
 PT bronchodilating agent.

PS Claim 15; SEQ ID NO 11110; 763pp; English.  
 XX  
 CC This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and



reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating the expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has anti-allergic, anti-inflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it

Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;  
Query Match 1.5%; Score 13; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGGGTTTCGGTTCG 24  
Db 3 GGGGTTTCGGTTCG 15

RESULT 250  
ADH17043/C  
ID ADH17043 standard; DNA; 15 BP.  
XX  
AC ADH17043;  
XX  
DT 11-MAR-2004 (first entry)  
XX  
DE Taqman probe used to analyse human EphB4 sequence.  
XX  
KW tyrosine kinase activity; type 1 plasminogen activator inhibitor; PAI-1;  
KW TIMP-1; tissue inhibitor of metalloproteinase 1; vinculin;  
KW vascular endothelial growth factor; VEGF; placental growth factor; PLGF;  
KW migration inhibitory factor; MIG; probe; ss; human; EphB4.  
XX  
OS Homo. sapiens.  
XX  
PN WO2003097854-A2.  
XX  
PD 27-NOV-2003.  
XX  
PF 19-MAY-2003; 2003WO-US015711.  
XX  
PR 17-MAY-2002; 2002US-0380872P.  
PR 24-FEB-2003; 2003US-0448874P.  
PR 24-FEB-2003; 2003US-0448922P.  
XX  
PA (SUGEN-) SUGEN INC.  
XX  
PI Morimoto A, Deprimo S, O'Farrell A, Smolich BD, Manning WC;  
PI Walter SA, Schilling JW, Cherrington J;  
XX  
DR WPI; 2004-042604/04.

Determining whether a test compound inhibits tyrosine kinase activity in a mammal by exposing the mammal to the test compound and measuring in the mammal the level of at least one of the measured proteins or mRNA transcripts.

Example K; SEQ ID NO 42; 408pp; English.

The invention relates to a novel method for determining whether a test compound inhibits tyrosine kinase activity in a mammal comprising measuring in the mammal the level of at least one of the proteins and/or mRNA transcripts or genes for such proteins comprising type 1 plasminogen activator inhibitor (PAI-1), TIMP-1 (tissue inhibitor of metalloproteinase 1), vinculin, vascular endothelial growth factor (VEGF), placental growth factor (PLGF), VEGF/PLGF heterodimers or migration inhibitory factor (MIG), exposing the mammal to the test compound and then measuring in the mammal the level of at least one of the proteins and/or mRNA transcripts previously measured. The method of the invention may be useful for determining whether a test compound inhibits tyrosine kinase activity in a mammal. The current sequence is that of the Taqman probe which was used in the exemplification of the invention.

Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 U; 0 Other;  
Query Match 1.5%; Score 13; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 441 ACTTGGGCAAGG 453  
Db 13 ACTTGGGCAAGG 1

RESULT 251  
ADM56222/C  
ID ADM56222 standard; DNA; 16 BP.  
XX  
AC ADM56222;  
XX  
DT 03-JUN-2004 (first entry)  
XX  
DE Aspergillus oryzae TAKA amylase PCR primer AMY5.  
XX  
KW Host cell; biopesticide; amylase; enzyme; PCR; primer; ss.  
XX  
OS Aspergillus oryzae.  
XX  
PN WO2004020611-A1.  
XX  
PD 11-MAR-2004.  
XX  
PF 29-AUG-2003; 2003WO-BE000143.  
XX  
PR 30-AUG-2002; 2002US-0407843P.  
XX  
PA (PURA-) PURATOS NV.  
XX  
PI Jonniaux J, Valepyn E, Corbisier A, Dauvrin T;  
XX  
DR WPI; 2004-239191/22.

New Myrothecium host cell comprising at least one recombinant DNA construct, useful as cell factory for industrial enzyme and/or protein production for producing therapeutic drugs, and as source of biopesticide.

Example 3; SEQ ID NO 31; 83pp; English.

The present sequence is that of PCR primer AMY5. In an example from the invention, this primer and primer GPD2 ADM56221 for the glyceraldehyde-3-phosphate dehydrogenase (GPD) promoter were used to detect the presence of amylase expression vector p2G-S in Myrothecium sp. transformants, verifying integration of the vector in the Myrothecium genome without



Qy 380 TCACTCTCAGGAGACC 395

RESULT 254  
ADO43601

AD043601 standard; DNA; 16 BP.  
AD043601;  
29-JUL-2004 (first entry)  
Mutant DNA fragment of SOD-1 where G12R mutation occurs.  
DNAAzyme; dominant inherited disorder; achondroplasia;  
amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;  
osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.  
Homo sapiens.  
WO2004038019-A2.  
06-MAY-2004.  
23-OCT-2003; 2003WO-GB004614.  
23-OCT-2002; 2002GB-00024663.  
(ISIS-) ISIS INNOVATION LTD.  
Beeson D, Wood M, Abdelgany A;  
WPI; 2004-365523/34.  
New DNAAzyme that cleaves mutant polynucleotides, useful in treating a  
dominantly inherited disorder associated with a mutant allele, such as  
achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and  
hypercholesterolemia.  
Disclosure; Page 7; 24pp; English.  
The specification describes a DNAAzyme which selectively cleaves a mutant  
polynucleotide by cleaving at a site remote from the mutation site. The  
DNAAzyme binds selectively to a mutant allele or its expressed product,  
and comprises a central catalytic motif (Helix II) and two flanking  
regions (helix I and III) where at least one of the flanking regions has  
a polynucleotide sequence complementary to a region that includes the  
mutation in the mutant allele or to that of the expressed product. Both  
flanking regions are complementary to mutated regions of the mutant  
allele or the expressed product. The complement of the mutation is 2 or 3  
nucleotides upstream or downstream of the site of cleavage, preferably in  
helix I. Helix I and III are of different lengths, where helix I is  
shorter than helix III, and their length is 21-7 or 15-8 nucleotides.  
Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.  
At least one of the flanking regions comprises ribonucleic acid. The  
DNAAzyme further comprises a stem-loop structure at either or both  
terminus. The DNAAzyme is useful in therapy, in particular for the  
manufacture of a medicament for the treatment of a disorder associated  
with a mutant allele in a patient, where the DNAAzyme comprises a central  
catalytic motif and two flanking substrate-binding regions, and where at  
least one flanking region binds at the site of mutation in the mutant  
allele or its expressed product and the catalytic motif cleaves at a site  
remote from the site of mutation. The disorder is a dominantly inherited  
disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1  
mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta  
and SCCMS. AD043600-AD043601 represent the wild type and mutant DNA  
fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene  
where a G12R mutation occurs and causes amyotrophic lateral sclerosis.  
These sequences are suitable for the design of DNAAzymes of the invention  
(see AD043602).  
Sequence 16 BP; 2 A; 7 C; 6 G; 1 T; 0 U; 0 Other;  
Query Match 1.5%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 1.9e+02;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 94 GGGCGACGCCCGAGTG 109  
|||||

Db 1 GGGCGACGCCCGAGTG 16  
RESULT 255  
ABH27646/C  
ID ABH27646 standard; DNA; 13 BP.  
XX  
XX ABH27646;  
AC  
XX  
XX 22-FEB-2002 (first entry)  
DT  
XX  
XX Oligonucleotide SEQ ID NO 227623 for detecting SNP TSC0055504.  
DE  
XX  
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200177384-A2.  
PN  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
PF  
XX  
XX 07-APR-2000; 2000DE-01019173.  
PR  
XX  
XX (EPG-) EPIGENOMICS AG.  
PA  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
PI  
XX  
XX WPI; 2001-657177/75.  
DR  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
PT  
PS Claim 1; SEQ ID NO 227623; 29pp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABH00010-ABH2073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 3 A; 0 C; 1 G; 8 T; 0 U; 1 Other;  
Query Match 1.4%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 1.6e+02;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 600 GATAACATTAAA 612  
:|||||  
DB 13 RATAAACATTAAA 1  
RESULT 256  
ABH27647  
ID ABH27647 standard; DNA; 13 BP.  
XX  
XX ABH27647;  
AC  
XX  
XX 22-FEB-2002 (first entry)  
DT  
XX  
XX Oligonucleotide SEQ ID NO 227624 for detecting SNP TSC0055504.  
DE  
XX

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 XX (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 XX WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 XX Claim 1; SEQ ID NO 227624; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and ABI0010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 13 BP; 8 A; 1 C; 0 G; 3 T; 0 U; 1 Other;  
 SQ  
 Query Match 1.4%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 1.6e+02;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 OY 600 GATAAACATTAA 612  
 Db 1 RATAAACATTAA 13  
 RESULT 257  
 ABK28501  
 ID ABK28501 standard; DNA; 15 BP.  
 XX  
 AC ABK28501;  
 XX  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Paraoxonase 2 (PON2), allele specific oligonucleotide primer #8.  
 XX  
 KW Paraoxonase 2; PON2; coronary heart disease; ASO;  
 KW allele specific oligonucleotide; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200182202-A1.  
 XX  
 PD 22-NOV-2001.  
 XX  
 XX  
 PF 18-MAY-2001; 2001WO-US016352.  
 XX  
 XX 18-MAY-2000; 2000US-0205145P.  
 PR  
 XX

PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Anastasio AE, Chew A, Choi JY, Denton RR, Lee HH, Nandabalan K;  
 XX  
 XX WPI; 2002-121985/16.  
 DR  
 XX  
 XX An isolated polynucleotide comprising a paraxonase 2 (PON2) isogene  
 PT encodes a pharmacologically important protein for the identification of  
 PT polymorphisms at the PON2 locus.  
 XX  
 XX Claim 17; Page 13; 125pp; English.  
 PS  
 XX  
 CC The invention describes an isolated polynucleotide sequence comprising a  
 CC paraxonase 2 (PON2) isogene. Primers and probes allow identification of  
 CC this sequence and its polymorphisms and are useful for identifying which  
 CC isoform of paraxonase 2 a person carries. Identification of a PON2  
 CC isoform allows tailored pharmaceutical treatment to be designed and  
 CC administered. PON2 is a particularly important gene for the treatment of  
 CC coronary heart disease. This sequence represents an allele specific  
 CC oligonucleotide (ASO) primer used for detecting PON2 gene polymorphisms,  
 CC described in the method of the invention  
 XX  
 XX Sequence 15 BP; 8 A; 2 C; 1 G; 3 T; 0 U; 1 Other;  
 SQ  
 Query Match 1.4%; Score 12.6; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 1.8e+02;  
 Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 OY 717 ATAAAACTCAGTTAA 731  
 Db 1 ATAAACACAGTTAA 15  
 Search completed: April 14, 2005, 16:45:14  
 Job time : 2 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:52:03 ; Search time 0.001 Seconds  
(without alignments)  
160.816 Million cell updates/sec

Title: US-10-672-866-3  
Perfect score: 874  
Sequence: 1 ctcgagcgctgggtttcc.....tattaaagaatccaaattc 874

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 92 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 2 summaries

Database : rsl3.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	42.4	4.9	48	1 N79542	ACCESSION:N79542
2	36	4.1	44	1 H41186	ACCESSION:H41186

# ALIGNMENTS

RESULT 1  
N79542/c  
LOCUS  
DEFINITION  
N79542 48 bp mRNA linear EST 29-MAR-1996  
z509h12.s1 Soares fetal lung NbHL19W Homo sapiens cDNA clone  
IMAGE:301607 3' similar to gb:X02317 SUPEROXIDE DISMUTASE (HUMAN);  
mRNA sequence.  
ACCESSION N79542.1 GI:1242243  
VERSION N79542.1  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 48)  
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,  
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
Parsons,J., Rifkin,L., Rohlffing,T., Soares,M., Tan,F.,  
Trevasakis,E., Waterston,R., Williamson,A., Wohlmann,P. and  
Wilson,R.  
The WashU-Merck EST Project  
Unpublished (1995)  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810

RESULT 2  
H41186  
LOCUS  
DEFINITION  
H41186 44 bp mRNA linear EST 31-JUL-1995  
yN88b11.r1 Soares adult brain N2bSHB55Y Homo sapiens cDNA clone  
IMAGE:175485 5' similar to gb:X02317 SUPEROXIDE DISMUTASE (HUMAN);  
mRNA sequence.  
ACCESSION H41186  
VERSION H41186.1 GI:917238  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 44)  
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,  
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
Parsons,J., Rifkin,L., Rohlffing,T., Soares,M., Tan,F.,  
Trevasakis,E., Waterston,R., Williamson,A., Wohlmann,P. and  
Wilson,R.  
The WashU-Merck EST Project  
Unpublished (1995)  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810

Email: est@wustl.edu  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Trace considered overall poor quality  
Seq primer: m13 -40 forward  
High quality sequence stop: 1.  
Location/Qualifiers  
FEATURES  
source  
1..48  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="GDB:1246531"  
/db\_xref="taxon:9606"  
/clone="IMAGE:301607"  
/dev\_stage="19 weeks"  
/lab\_host="DH10B (ampicillin resistant)"  
/clone\_lib="Soares fetal lung NbHL19W"  
/note="Organ: lung; Vector: pT7T3D (Pharmacia) with a  
modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st  
strand cDNA was primed with a Not I - oligo(dT) primer  
[5'-TGTACCAATCTGAAGTGGAGCCGCCCAATTTTTTTTTTTT-3'],  
double-stranded cDNA was size selected, ligated to Eco RI  
adapters (Pharmacia), digested with Not I and cloned into  
the Not I and Eco RI sites of a modified pT7T3 vector  
(Pharmacia). Library went through one round of  
normalization to a Cot = 5. Library constructed by Bento  
Soares and M.Fatima Bonaldo. This library was constructed  
from the same fetus as the fetal heart library, Soares  
fetal heart NbHL19W."

Query Match 4.9%; Score 42.4; DB 1; Length 48;  
Best Local Similarity 89.6%; Pred. No. 0;  
Matches 43; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 533 TTCCCTTGATGATGATCTGAGGCCCTTAACATCATCTGTATCTCTCT 580  
|||||  
Db 48 TTCCCTTGATGATGATCTGAGGCCCTTAACATCATCTGTATCTCTCT 1

RESULT 2  
H41186  
LOCUS  
DEFINITION  
H41186 44 bp mRNA linear EST 31-JUL-1995  
yN88b11.r1 Soares adult brain N2bSHB55Y Homo sapiens cDNA clone  
IMAGE:175485 5' similar to gb:X02317 SUPEROXIDE DISMUTASE (HUMAN);  
mRNA sequence.  
ACCESSION H41186  
VERSION H41186.1 GI:917238  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 44)  
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,  
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
Parsons,J., Rifkin,L., Rohlffing,T., Soares,M., Tan,F.,  
Trevasakis,E., Waterston,R., Williamson,A., Wohlmann,P. and  
Wilson,R.  
The WashU-Merck EST Project  
Unpublished (1995)  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@wustl.edu  
Insert Size: 1582  
High quality sequence starts: 1  
High quality sequence stops: 1  
Source: IMAGE Consortium, LLNL  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Trace considered overall poor quality  
Insert length: 1582 Std Error: 0.00

Seq primer: M13RP1  
High quality sequence stop: 1.  
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Location/Qualifiers  
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/mol\_type="mRNA"  
/db\_xref="GDB:3837520"  
/db\_xref="taxon:9606"  
/clone="IWAGE:175485"  
/sex="Male"  
/dev\_stage="55-year old"  
/lab\_host="DH10B (ampicillin resistant)"  
/clone\_lib="Soares adult brain N2b5HB55y"  
/note="Organ: brain; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTACCAATCTGAAGTGGAGCGCGCGCTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 53. Library constructed by Bento Soares and M.Fatima Bonaldo. The adult brain RNA was provided by Dr. Donald H. Gilden. Tissue was acquired 17-18 hours after death which occurred in consequence of a ruptured aortic aneurysm. RNA was prepared from a pool of tissues representing the following areas of the brain: frontal, parietal, temporal and occipital cortex from the left and right hemispheres, subcortical white matter, basal ganglia, thalamus, cerebellum, midbrain, pons and medulla."

Query Match 4.1%; Score 36; DB 1; Length 44;  
Best Local Similarity 88.6%; Pred. No. 0;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 323 AATGTGACTGCTGACAAAGATGCTGGCGGATGCTCTATTGA 366  
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 1 AATATTACTGCTGACAAATATAGTGGCGCTATGCTCTATTGA 44

Search completed: April 14, 2005, 16:52:04  
Job time : 1 secs

CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 4 A; 9 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 81 TGTGCGTCTGAAGGGCGAC 100  
 Db 20 TGTGCGTCTGAAGGGCGAC 1  
 RESULT 53  
 ACC40903/c  
 ID ACC40903 standard; DNA; 20 BP.  
 XX  
 AC ACC40903;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150457.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PH Key Location/Qualifiers  
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 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT  
 XX WO2003000707-A2.  
 PN  
 XX 03-JAN-2003.  
 PD  
 XX 19-JUN-2002; 2002WO-US019664.  
 PF  
 XX 21-JUN-2001; 2001US-00888360.  
 PR  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX

PI Bennett FC, Dobie K;  
 XX  
 DR WPI; 2003-184032/18.  
 XX  
 PT Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 PS Claim 3; Page 76; 107pp; English.  
 XX  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 4 A; 8 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 337 CAAAGATGCTGCGCGCATG 356  
 Db 20 CAAAGATGCTGCGCGCATG 1  
 RESULT 54  
 ACC40920/c  
 ID ACC40920 standard; DNA; 20 BP.  
 XX  
 AC ACC40920;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150474.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
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 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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Best Local Similarity 100.0%; Pred. No. 60; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTTAAAGTACCTGTAGTGG 677  
 DB 20 TTTAAAGTACCTGTAGTGG 1

RESULT 51  
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 ID ACC40940 standard; DNA; 20 BP.  
 XX AC ACC40940;  
 XX 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150494.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
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 FT /mod\_base= OTHER  
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 FT modified\_base 1..5  
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 FT modified\_base 16..20  
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 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX Example 15; Page 77; 107pp; English.  
 XX The invention relates to a compound of 8-50 nucleobases in length,  
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
 XX 1. The compound specifically hybridises with and inhibits the expression  
 XX of human superoxide dismutase 1 by hybridising with at least an 8-  
 XX nucleobase portion of the nucleic acid molecule encoding the active site  
 XX of the enzyme. The activity of compounds of the invention may be  
 XX described as neuroprotective, cytostatic and antiinflammatory. The  
 XX mechanism of action of compounds of the invention is antisense inhibition  
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 XX Compounds of the invention are useful for inhibiting the expression of  
 XX human superoxide dismutase 1 in human cells or tissues, and for treating

CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 4 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851  
 DB 20 CTGTATGGCACTTATTATGA 1

RESULT 52  
 ACC40882/c  
 ID ACC40882 standard; DNA; 20 BP.  
 XX AC ACC40882;  
 XX 23-MAY-2003 (first entry)  
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 146145.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
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 FT methylcytosine"  
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 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 XX superoxide dismutase 1, for modulating expression of the dismutase and  
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX Claim 3; Page 76; 107pp; English.  
 XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC



XX Homo sapiens.  
OS Synthetic.  
XX Key  
XX Location/Qualifiers  
FT modified\_base 1..20  
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FT /note= "Phosphorothioate linkages. All cytosines are 5-  
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FT /mod\_base= OTHER  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
XX Novel antisense compounds targeted to nucleic acids encoding human  
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XX Example 15; Page 77; 107pp; English.  
XX The invention relates to a compound of 8-50 nucleobases in length,  
XX targeted to a nucleic acid molecule encoding human superoxide dismutase  
XX 1. The compound specifically hybridises with and inhibits the expression  
XX of human superoxide dismutase 1 by hybridising with at least an 8-  
XX nucleobase portion of the nucleic acid molecule encoding the active site  
XX of the enzyme. The activity of compounds of the invention may be  
XX described as neuroprotective, cytostatic and antiinflammatory. The  
XX mechanism of action of compounds of the invention is antisense inhibition  
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate  
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
XX Compounds of the invention are useful for inhibiting the expression of  
XX human superoxide dismutase 1 in human cells or tissues, and for treating  
XX a disease or condition associated with this enzyme (antisense therapy),  
XX especially amyotrophic lateral sclerosis, a disease or condition arising  
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be  
XX used in diagnostics, therapeutics and as a research reagent, e.g.  
XX prophylactically to prevent or delay infection, inflammation or tumour  
XX formation. Sequences given in records ACC40880-ACC40957 represent human  
XX superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX Sequence 20 BP; 8 A; 4 C; 1 G; 7 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 620 ATCTTAAAGTGTAAATTGTC 639  
Db 20 ATCTTAAAGTGTAAATTGTC 1  
RESULT 50  
ACC40915/c  
ID ACC40915 standard; DNA; 20 BP.

XX ACC40915;  
XX 23-MAY-2003 (first entry)  
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150469.  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;  
XX ss.  
XX Homo sapiens.  
XX Synthetic.  
XX Key  
XX Location/Qualifiers  
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FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
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XX prophylactically to prevent or delay infection, inflammation or tumour  
XX formation. Sequences given in records ACC40880-ACC40957 represent human  
XX superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX Sequence 20 BP; 7 A; 5 C; 2 G; 6 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;

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XX 19-JUN-2002; 2002WO-US019664.
PF
XX
XX 21-JUN-2001; 2001US-00888360.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Bennett FC, Dobie K;
PI
XX
XX WPI; 2003-184032/18.
DR
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PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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XX Claim 3; Page 77; 107pp; English.
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CC of human superoxide dismutase 1 by hybridising with at least an 8-
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CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
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Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 20 CGCACACTGGTGGTCCATGA 1
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XX 23-MAY-2003 (first entry)
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XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
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XX Homo sapiens.
OS
XX Synthetic.
XX
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FT methylcytosine"
FT modified_base 1..5
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FT modified_base 16..20
FT /*tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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XX WO2003000707-A2.
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XX 03-JAN-2003.
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XX 19-JUN-2002; 2002WO-US019664.
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XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Bennett FC, Dobie K;
PI
XX
XX WPI; 2003-184032/18.
DR
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
PS
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XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
SQ
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 535 CCCTTGGATGCTAGCTGAGG 554
DB 20 CCCTTGGATGCTAGCTGAGG 1
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RESULT 49
ACC40913/c
ID ACC40913 standard; DNA; 20 BP.
XX
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XX
XX 23-MAY-2003 (first entry)
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XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150467.
DE
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
```

CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
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 QY 144 ATGACCCAGTGAGGTGTGG 163  
 DB 20 ATGACCCAGTGAGGTGTGG 1  
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 XX AC ACC40904;  
 XX 23-MAY-2003 (first entry)  
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 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 FT modified\_base 16..20  
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 XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX

PT Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
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 XX The invention relates to a compound of 8-50 nucleobases in length,  
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 CC mechanism of action of compounds of the invention is antisense inhibition  
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 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
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 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
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 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 340 AGATGGTGTGGCGGATGTGT 359  
 DB 20 AGATGGTGTGGCGGATGTGT 1  
 RESULT 47  
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 ID ACC40908 standard; DNA; 20 BP.  
 XX AC ACC40908;  
 XX 23-MAY-2003 (first entry)  
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150462.  
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
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 XX WO2003000707-A2.  
 XX 03-JAN-2003.  
 XX

Db 20 TCTTTGTCATTCAAGCCTGT 1

RESULT 44  
ACC40936/c  
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XX ACC40936;  
AC ACC40936;  
XX 23-MAY-2003 (first entry)  
DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150490.  
XX Human superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX Homo sapiens.  
OS Synthetic.  
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XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
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CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX Sequence 20 BP; 6 A; 3 C; 3 G; 8 T; 0 U; 0 Other;  
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Best Local Similarity 100.0%; Pred. No. 60;  
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QY 818 TCTGATATAAAACCCCTGTAT 837  
DB 20 TCTGATATAAAACCCCTGTAT 1

RESULT 45  
ACC40893/c  
ID ACC40893 standard; DNA; 20 BP.  
XX ACC40893;  
AC ACC40893;  
XX 23-MAY-2003 (first entry)  
DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150447.  
XX Human superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
KW ss.  
XX Homo sapiens.  
OS Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
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FT /mod\_base= OTHER  
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
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 FT /\*tag= a  
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 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
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 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
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 XX Sequence 20 BP; 8 A; 6 C; 1 G; 5 T; 0 U; 0 Other;  
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XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150486.  
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 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
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 XX Homo sapiens.  
 OS Synthetic.  
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 FT methylcytosine"  
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 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003000707-A2.  
 PN 03-JAN-2003.  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX 21-JUN-2001; 2001US-00888360.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Bennett FC, Dobie K;  
 XX WPI; 2003-184032/18.  
 XX Novel antisense compounds targeted to nucleic acids encoding human  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX Example 15; Page 77; 107pp; English.  
 XX The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX Sequence 20 BP; 9 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 801 TCCTTGTCTTCAGCCTGT 820

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XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 9 A; 3 C; 3 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 787 AACTTGTGCAGAAATTCCTTG 806
XX | | | | | | | | | | | | | | | | | |
XX Db 20 AACTTGTGCAGAAATTCCTTG 1
XX
XX RESULT 41
XX ACC40892/c
XX ID ACC40892 standard; DNA; 20 BP.
XX AC ACC40892;
XX
XX DT 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150446.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate linkages. All cytosines are 5-
XX methylcytosine"
XX modified_base 1..5
XX /tag= b
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX modified_base 16..20

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```

FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX
XX PN 03-JAN-2003.
XX
XX PD 19-JUN-2002; 2002WO-US019664.
XX
XX PF 21-JUN-2001; 2001US-00888360.
XX
XX PR (ISIS-) ISIS PHARM INC.
XX
XX PA Bennett FC, Dobie K;
XX
XX PI WPI; 2003-184032/18.
XX
XX DR Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX PS Claim 3; Page 76; 107pp; English.
XX
XX CC The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX SQ Sequence 20 BP; 5 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 142 TAATGACCAAGTGAAGTGT 161
XX | | | | | | | | | | | | | | | | | |
XX Db 20 TAATGACCAAGTGAAGTGT 1
XX
XX RESULT 42
XX ACC40897/c
XX ID ACC40897 standard; DNA; 20 BP.
XX
XX AC ACC40897;
XX
XX DT 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150451.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX

```

CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisenase therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 8 A; 1 C; 7 G; 4 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 AC ACC40914;  
 XX  
 DT 23-MAY-2003 (first entry)  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150468.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 FN WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX PA Bennett FC, Dobie K;  
 XX PI  
 XX WPI; 2003-184032/18.  
 DR  
 XX Novel antisense compounds targeted to nucleic acids encoding human.  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX

PS  
 XX Example 15; Page 77; 107pp; English.  
 CC The invention relates to a compound of 8-50 nucleobases in length,  
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
 CC 1. The compound specifically hybridises with and inhibits the expression  
 CC of human superoxide dismutase 1 by hybridising with at least an 8-  
 CC nucleobase portion of the nucleic acid molecule encoding the active site  
 CC of the enzyme. The activity of compounds of the invention may be  
 CC described as neuroprotective, cytostatic and antiinflammatory. The  
 CC mechanism of action of compounds of the invention is antisense inhibition  
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
 CC Compounds of the invention are useful for inhibiting the expression of  
 CC human superoxide dismutase 1 in human cells or tissues, and for treating  
 CC a disease or condition associated with this enzyme (antisense therapy),  
 CC especially amyotrophic lateral sclerosis, a disease or condition arising  
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
 CC used in diagnostics, therapeutics and as a research reagent, e.g.  
 CC prophylactically to prevent or delay infection, inflammation or tumour  
 CC formation. Sequences given in records ACC40880-ACC40957 represent human  
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
 XX  
 SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;  
 Query Match 2.3%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 625 AAAAGTGAATTTGTGTGACT 644  
 DB 20 AAAAGTGAATTTGTGTGACT 1  
 XX  
 RESULT 40  
 ACC40930/c  
 ID ACC40930 standard; DNA; 20 BP.  
 XX  
 AC ACC40930;  
 XX  
 DT 23-MAY-2003 (first entry)  
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150484.  
 XX  
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages. All cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 FN WO2003000707-A2.  
 XX  
 XX 03-JAN-2003.  
 XX  
 XX 19-JUN-2002; 2002WO-US019664.  
 XX  
 XX 21-JUN-2001; 2001US-00888360.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX PA Bennett FC, Dobie K;  
 XX PI  
 XX WPI; 2003-184032/18.  
 DR  
 XX Novel antisense compounds targeted to nucleic acids encoding human.  
 PT superoxide dismutase 1, for modulating expression of the dismutase and  
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
 XX

RESULT 37  
ACC40898/c  
ID ACC40898 standard; DNA; 20 BP.  
XX AC ACC40898;  
XX 23-MAY-2003 (first entry)  
DT DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150452.  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
XX ss.  
XX Homo sapiens.  
OS Synthetic.  
OS  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
XX Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX Claim 3; Page 76; 107pp; English.  
XX The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.  
CC Compounds of the invention are useful for inhibiting the expression of  
CC human superoxide dismutase 1 in human cells or tissues, and for treating  
CC a disease or condition associated with this enzyme (antisense therapy),  
CC especially amyotrophic lateral sclerosis, a disease or condition arising  
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be  
CC used in diagnostics, therapeutics and as a research reagent, e.g.  
CC prophylactically to prevent or delay infection, inflammation or tumour  
CC formation. Sequences given in records ACC40880-ACC40957 represent human  
CC superoxide dismutase 1 antisense inhibitor oligonucleotides  
XX

SQ Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;  
Query Match 2.3%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 212 GAGTTTGGAGATAATACAGC 231  
DB 20 GAGTTTGGAGATAATACAGC 1  
RESULT 38  
ACC40912/c  
ID ACC40912 standard; DNA; 20 BP.  
XX AC ACC40912;  
XX 23-MAY-2003 (first entry)  
DT DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150466.  
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;  
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;  
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;  
XX ss.  
XX Homo sapiens.  
OS Synthetic.  
OS  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytosines are 5-  
FT methylcytosine"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX WO2003000707-A2.  
XX 03-JAN-2003.  
XX 19-JUN-2002; 2002WO-US019664.  
XX 21-JUN-2001; 2001US-00888360.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett FC, Dobie K;  
XX WPI; 2003-184032/18.  
XX Novel antisense compounds targeted to nucleic acids encoding human  
PT superoxide dismutase 1, for modulating expression of the dismutase and  
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.  
XX Claim 3; Page 77; 107pp; English.  
XX The invention relates to a compound of 8-50 nucleobases in length,  
CC targeted to a nucleic acid molecule encoding human superoxide dismutase  
CC 1. The compound specifically hybridises with and inhibits the expression  
CC of human superoxide dismutase 1 by hybridising with at least an 8-  
CC nucleobase portion of the nucleic acid molecule encoding the active site  
CC of the enzyme. The activity of compounds of the invention may be  
CC described as neuroprotective, cytostatic and antiinflammatory. The  
CC mechanism of action of compounds of the invention is antisense inhibition  
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate  
CC



PS Claim 2; SEQ ID NO 7; 22pp; Korean.

XX The invention relates to a novel method and a DNA chip for monitoring a response of cancer patients to irradiation therapy using antioxidant gene expression analysis, thereby accurately anticipating the response to irradiation therapy and minimizing adverse side-effects thereof. A method for monitoring a response of cancer patients to irradiation therapy comprises: collecting a peripheral blood cell from a human; irradiating the peripheral blood cell; extracting RNA according to the time period; preparing DNA from the RNA; hybridizing the DNA with antioxidant enzyme cDNA; amplifying the hybridized DNA using one or more pairs of primers selected from: DNA fragments of ADT66487 and ADT66488; DNA fragments of ADT66489 and ADT66490; DNA fragments of ADT66491 and ADT66492; DNA fragments of ADT66493 and ADT66494; DNA fragments of ADT66495 and ADT66496; and DNA fragments of ADT66497 and ADT66498; and analyzing expression pattern of the amplified DNA according to the time period. A DNA chip for monitoring a response of cancer patients to irradiation therapy amplifies one or more antioxidant genes corresponding to the following DNA fragments: DNA fragments of ADT66487 and ADT66488 - GPx1; DNA fragments of ADT66489 and ADT66490 - gamma-GCS; DNA fragments of ADT66491 and ADT66492 - catalase; DNA fragments of ADT66493 and ADT66494 - CuZn SOD; DNA fragments of ADT66495 and ADT66496 - Mn SOD; and DNA fragments of ADT66497 and ADT66498 - Prx II. The present sequence represents a PCR primer of the invention.

XX Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;

XX Query Match 2.4%; Score 21; DB 1; Length 21;

XX Best Local Similarity 100.0%; Pred. No. 52;

XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAAGCCGTGTC 85

DB 1 ATGGCGACGAAGCCGTGTC 21

RESULT 35

ID ABQ73057/c

XX ABQ73057 standard; DNA; 22 BP.

AC ABQ73057;

XX 24-SEP-2002 (first entry)

XX Cu/Zn SOD gene related PCR primer SEQ ID NO:5.

XX Amyotrophic lateral sclerosis; ALS; transgenic rat; SOD; Cu/Zn SOD;

XX superoxide dismutase; PCR primer; ss.

OS Rattus sp.

OS Synthetic.

XX JP2002142610-A.

XX 21-MAY-2002.

XX 07-NOV-2000; 2000JP-00339567.

XX 07-NOV-2000; 2000JP-00339567.

XX (TOHO-) TOHOKU TECHNOARCH KK.

XX WPI; 2002-552464/59.

XX An amyotrophic lateral sclerosis model rat for investigation of its pathology and onset mechanism with introduced exogenic variant Cu/Zn superoxide dismutase.

XX Example 2; Page 13; 28pp; Japanese.

XX The present invention describes an amyotrophic lateral sclerosis (ALS) model rat. Also described: (1) a transgenic rat or its progeny having a DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)

CC gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD gene sequence. The transgenic rat can be used in the investigation of the pathology and the onset mechanism of ALS. The present sequence represents a PCR primer which is used in an example from the present invention

XX Sequence 22 BP; 7 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

XX Query Match 2.3%; Score 20.4; DB 1; Length 22;

XX Best Local Similarity 95.5%; Pred. No. 61;

XX Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY .193 GCATGGATTCCATGTTTCATGAG 214

DB 22 GCATGGATTCCGTTTCATGAG 1

RESULT 36

AAV01383

ID AAV01383 standard; DNA; 20 BP.

XX AAV01383;

XX 23-MAR-1998 (first entry)

XX Superoxide dismutase 1 PCR primer for universal mammalian STS's.

XX PCR primer; polymerase chain reaction; amplification; UM-STs;

XX universal mammalian sequence tagged site; genomic map; clone; ss.

OS Synthetic.

XX WO9731012-A1.

XX 28-AUG-1997.

XX 18-FEB-1997; 97WO-US002403.

XX 22-FEB-1996; 96US-0012061P.

XX (UNMI ) UNIV MICHIGAN.

XX (UNMS ) UNIV MICHIGAN STATE.

XX Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;

XX WPI; 1997-435083/40.

XX New oligonucleotide primers amplifying gene regions conserved among mammals - useful for developing genomic maps, isolating clones and making cross-species comparisons.

XX Claim 2; Page 13; 26pp; English.

XX The present sequence represents a specifically claimed oligonucleotide PCR primer. The oligonucleotide can be used for polymerase chain reaction (PCR) amplification of DNA, specifically regions of specific genes that are conserved among mammalian species, i.e. pairs of oligonucleotides from the present specification represent universal mammalian sequence-tagged site (UM-STs) primers. The primers are used to develop genomic maps to isolate clones from libraries, to make cross-species comparisons and to develop additional genetic markers. UM-STs allow genomic comparisons to be made between more species

XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

XX Query Match 2.3%; Score 20; DB 1; Length 20;

XX Best Local Similarity 100.0%; Pred. No. 60;

XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 236 TGTACCAGTGCAGGTCCTCA 255

DB 1 TGTACCAGTGCAGGTCCTCA 20

XX PN US2003186246-A1.  
 XX PD 02-OCT-2003.  
 XX PF 28-MAR-2002; 2002US-00109349.  
 XX PR 28-MAR-2002; 2002US-00109349.  
 XX PA (WILL/) WILLEY J C.  
 XX PA (CRAW/) CRAWFORD E L.  
 XX PI Willey JC, Crawford EL;  
 XX PI WPI; 2003-811730/76.  
 XX DR Direct comparison of numerical gene expression values between samples of  
 XX PT genes comprises using multiplex standardized reverse transcription-  
 XX PT polymerase chain reaction.  
 XX PS Example 1; SEQ ID NO 52; 59pp; English.  
 XX CC The present invention relates to a method for the direct comparison of  
 XX CC numerical gene expression values between samples of genes. The method  
 XX CC comprises amplifying cDNA in the presence of a competitive template  
 XX CC mixture and primer pairs for several genes and then amplifying aliquots  
 XX CC of the PCR products using a primer pair specific for each gene. The  
 XX CC method of amplification is by multiplex standardised reverse  
 XX CC transcriptase-polymerase chain reaction (Start-PCR). High density  
 XX CC oligonucleotide or cDNA arrays are used to measure PCR products following  
 XX CC quantitative Start-PCR. The method is useful for the assessment of gene  
 XX CC expression in small biological samples such as fine needle aspirate  
 XX CC biopsies, and laser captured microdissected materials. The method allows  
 XX CC for the standardised measurement of hundreds of genes from the same  
 XX CC sample, which in prior art, could only be assessed for one gene. The  
 XX CC present sequence represents a multiplex Start-PCR primer which can be  
 XX CC used in the method of the present invention.  
 XX SQ Sequence 21 BP; 6 A; 1 C; 9 G; 5 T; 0 U; 0 Other;  
 Query Match 2.4%; Score 21; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 52;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 153 TGAAGGTGTGGGAAGCATTA 173  
 DB 1 TGAAGGTGTGGGAAGCATTA 21  
 RESULT 33  
 ADD56533/c  
 ID ADD56533 standard; DNA; 21 BP.  
 AC ADD56533;  
 XX 15-JAN-2004 (first entry)  
 XX Human gene expression analysis multiplex Start-PCR primer #53.  
 XX Gene expression; multiplex standardised reverse transcriptase-PCR;  
 XX Start-PCR; high density oligonucleotide array; cDNA array;  
 XX small biological sample; fine needle aspirate biopsy;  
 XX laser captured microdissected material; human; primer; ss.  
 XX Homo sapiens.  
 XX US2003186246-A1.  
 XX 02-OCT-2003.  
 XX 28-MAR-2002; 2002US-00109349.  
 XX 28-MAR-2002; 2002US-00109349.

XX (WILL/) WILLEY J C.  
 XX (CRAW/) CRAWFORD E L.  
 XX Willey JC, Crawford EL;  
 XX WPI; 2003-811730/76.  
 XX Direct comparison of numerical gene expression values between samples of  
 XX PT genes comprises using multiplex standardized reverse transcription-  
 XX PT polymerase chain reaction.  
 XX PS Example 1; SEQ ID NO 53; 59pp; English.  
 XX CC The present invention relates to a method for the direct comparison of  
 XX CC numerical gene expression values between samples of genes. The method  
 XX CC comprises amplifying cDNA in the presence of a competitive template  
 XX CC mixture and primer pairs for several genes and then amplifying aliquots  
 XX CC of the PCR products using a primer pair specific for each gene. The  
 XX CC method of amplification is by multiplex standardised reverse  
 XX CC transcriptase-polymerase chain reaction (Start-PCR). High density  
 XX CC oligonucleotide or cDNA arrays are used to measure PCR products following  
 XX CC quantitative Start-PCR. The method is useful for the assessment of gene  
 XX CC expression in small biological samples such as fine needle aspirate  
 XX CC biopsies, and laser captured microdissected materials. The method allows  
 XX CC for the standardised measurement of hundreds of genes from the same  
 XX CC sample, which in prior art, could only be assessed for one gene. The  
 XX CC present sequence represents a multiplex Start-PCR primer which can be  
 XX CC used in the method of the present invention.  
 XX SQ Sequence 21 BP; 9 A; 8 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 2.4%; Score 21; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 52;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 492 GTCGTTGGCTTGTGTGTAA 512  
 DB 21 GTCGTTGGCTTGTGTGTAA 1  
 RESULT 34  
 ADT66493  
 ID ADT66493 standard; DNA; 21 BP.  
 AC ADT66493;  
 XX 16-DEC-2004 (first entry)  
 XX PCR primer for CuZn SOD SEQ ID NO:7.  
 XX ss; primer; PCR; CuZn SOD; cancer; antioxidant gene expression analysis;  
 XX irradiation therapy.  
 XX Synthetic.  
 XX KR2004025183-A.  
 XX 24-MAR-2004.  
 XX 18-SEP-2002; 2002KR-00057027.  
 XX 18-SEP-2002; 2002KR-00057027.  
 XX (PARK/) PARK Y M.  
 XX Choi EM, Han MY, Hwang SY, Jun HJ, Kim YH, Park JH, Park YM;  
 XX WPI; 2004-495260/47.  
 XX Method and DNA chip for monitoring response of cancer patients to  
 XX irradiation therapy using antioxidant gene expression analysis.

```

Query Match      2.5%; Score 22; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGACGACGAGCGCTGTGCTG 88
Db 6 GCGACGACGAGCGCTGTGCTG 27

RESULT 30
ABQ73054/c
ID ABQ73054 standard; DNA; 21 BP.
XX
AC ABQ73054;
XX
DT 24-SEP-2002 (first entry)
XX
DE Cu/Zn SOD gene related PCR primer SEQ ID NO:2.
XX
KW Amyotrophic lateral sclerosis; ALS; transgenic rat; SOD; Cu/Zn SOD;
KW superoxide dismutase; PCR primer; ss.
XX
OS Rattus sp.
OS Synthetic.
XX
PN JP2002142610-A.
XX
PD 21-MAY-2002.
XX
PF 07-NOV-2000; 2000JP-00339567.
XX
PR 07-NOV-2000; 2000JP-00339567.
XX
PA (TOHO-) TOHOKU TECHNOARCH KK.
XX
DR WPI; 2002-552464/59.
XX
PT An amyotrophic lateral sclerosis model rat for investigation of its
PT pathology and onset mechanism with introduced exogenic variant Cu/Zn
PT superoxide dismutase.
XX
PS Example 1; Page 13; 28pp; Japanese.
XX
CC The present invention describes an amyotrophic lateral sclerosis (ALS)
CC model rat. Also described: (1) a transgenic rat or its progeny having a
CC DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)
CC gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD
CC gene sequence. The transgenic rat can be used in the investigation of the
CC pathology and the onset mechanism of ALS. The present sequence represents
CC a PCR primer which is used in an example from the present invention
XX
SQ Sequence 21 BP; 9 A; 3 C; 6 G; 3 T; 0 U; 0 Other;

Query Match      2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 564 TCATCTGTTATCTCTGCTAGCT 584
Db 21 TCATCTGTTATCTCTGCTAGCT 1

RESULT 31
ABZ79578
ID ABZ79578 standard; DNA; 21 BP.
XX
AC ABZ79578;
XX
DT 23-MAY-2003 (first entry)
XX
DE Human superoxide dismutase 1 PCR probe sequence.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

KW antinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW PCR; probe; ss.
XX
OS Homo sapiens.
XX
PN WO2003000707-A2.
XX
PD 03-JAN-2003.
XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
DR WPI; 2003-184032/18.
XX
PT Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Example 13; Page 74; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. The current sequence represents the human superoxide dismutase
CC 1 PCR probe sequence
XX
SQ Sequence 21 BP; 3 A; 5 C; 9 G; 4 T; 0 U; 0 Other;

Query Match      2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGCGCGTGTGCTGCTG 91
Db 1 ACGAAGCGCGTGTGCTGCTG 21

RESULT 32
ADD56532
ID ADD56532 standard; DNA; 21 BP.
XX
AC ADD56532;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human gene expression analysis multiplex Start-PCR primer #52.
XX
KW Gene expression; multiplex standardised reverse transcriptase-PCR;
KW Start-PCR; high density oligonucleotide array; cDNA array;
KW small biological sample; fine needle aspirate biopsy;
KW laser captured microdissected material; human; primer; ss.
XX
OS Homo sapiens.

```

CC The invention relates to a cell-transducing HIV-1 Tat-superoxide  
CC dismutase fusion protein containing HIV-1 Tat residues 49-57 linked at  
CC the amino terminal of Cu/Zn-superoxide dismutase (Cu/Zn-SOD), or its  
CC derivative, to form a covalent bond. The invention also relates to a  
CC recombinant polynucleotide that encodes the Tat-superoxide dismutase  
CC fusion protein, in which the DNA encoding HIV-1 Tat residues 49-57 is  
CC linked at the 5'-terminal of Cu/Zn-superoxide dismutase cDNA or its  
CC derivative and a method of introducing the Tat-superoxide dismutase  
CC fusion protein into a cell, by expressing the expression vector in a  
CC microorganism, purifying the expressed Tat-superoxide dismutase fusion  
CC protein and adding the fusion protein to the cell. The sequences and  
CC methods are used for counteracting reactive oxygen species that cause damage  
CC to macromolecules in the human body. This sequence represents a PCR  
CC primer used to amplify DNA encoding the human Cu/Zn-SOD protein of the  
CC invention.

XX  
SQ Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;

Query Match 2.5%; Score 22; DB 1; Length 27;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGACGACGAGCGCGTGTGCGTG 88  
|||||  
Db 6 GCGACGACGAGCGCGTGTGCGTG 27  
|||||

RESULT 28  
AD006572  
ID AD006572 standard; DNA; 27 BP.  
XX  
AC AD006572;  
XX  
XX  
DT 29-JUL-2004 (first entry)  
XX  
DE Fusion protein related human coding sequence PCR primer #1.  
XX  
KW fusion protein; transduction domain; superoxide dismutase; aging;  
KW inflammatory disease; PCR; ss; primer.  
XX  
OS Homo sapiens.  
XX  
XX WO2004039846-A1.  
XX  
XX 13-MAY-2004.  
XX  
XX 13-MAR-2003; 2003WO-KR000490.  
XX  
XX 31-OCT-2002; 2002KR-00066981.  
XX  
XX (UYHA-) UNIV HALLYM.  
XX  
XX Choi S, Park J, Han K, Choi J;  
XX  
XX WPI; 2004-376167/35.  
XX  
XX New transduction domain-target protein-transduction domain fusion protein  
XX having the ability to be transduced into a cell, useful for delivering a  
XX functional protein (i.e. superoxide dismutase) into a cell at enhanced  
XX efficiency.  
XX  
XX Disclosure; Page 38; 47pp; English.  
XX  
XX The present invention relates to a transduction domain-target protein-  
XX transduction domain fusion protein having the ability to be transduced  
XX into a cell, where the transduction domain is covalently bonded to each  
XX of the amino- and carboxyl-terminal ends of the target protein. The  
XX fusion protein is useful for delivering a functional protein or peptide  
XX (i.e. superoxide dismutase) into a cell at enhanced efficiency. The  
XX composition may be used in protein therapy where the superoxide dismutase  
XX playing a main role in removing reactive oxygen species is delivered into  
XX cells to treat diseases. It may be used in cosmetic and health food  
XX industries, in addition to treating various diseases, such as aging or

CC inflammatory diseases. The present sequence is a PCR primer used in the  
CC exemplification of the invention.

XX  
SQ Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;

Query Match 2.5%; Score 22; DB 1; Length 27;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGACGACGAGCGCGTGTGCGTG 88  
|||||  
Db 6 GCGACGACGAGCGCGTGTGCGTG 27  
|||||

RESULT 29  
ADQ74974  
ID ADQ74974 standard; DNA; 27 BP.  
XX  
AC ADQ74974;  
XX  
XX  
DT 09-SEP-2004 (first entry)  
XX  
DE Tat-pyridoxal kinase fusion protein associated primer seqid 3.  
XX  
KW cell-transduction; Tat-pyridoxal kinase fusion protein; HIV-1; Tat;  
KW pyridoxal kinase; PK; growth delay; alopecia; anaemia; seizure;  
KW convulsion; Epilepsy; Parkinsonism; Huntington's disease; Depression;  
KW PCR; primer; ss.  
XX  
XX Homo sapiens.  
XX  
XX KR2003090457-A.  
XX  
XX 28-NOV-2003.  
XX  
XX 24-MAY-2002; 2002KR-00028940.  
XX  
XX 24-MAY-2002; 2002KR-00028940.  
XX  
XX (BAEK/) BAEK N I.  
XX  
XX (CHOS/) CHO S W.  
XX  
XX (CHOI/) CHOI S Y.  
XX  
XX (KANG/) KANG J H.  
XX  
XX (KWON/) KWON O S.  
XX  
XX (LEEK/) LEE K S.  
XX  
XX (PARK/) PARK J S.  
XX  
XX Baek NI, Han JH, Cho SM, Choi SY, Kang JH, Kim AY, Kim CG;  
XX Kim DW, Kim JA, Kwon OS, Lee KS, Lee YJ, Park JS, Yoon CS;  
XX  
XX WPI; 2004-255654/24.  
XX  
XX Cell-transducing hiv-1 tat-pyridoxal kinase fusion protein and the use  
XX thereof.  
XX  
XX Example 1; SEQ ID NO 3; 19pp; Korean.  
XX  
XX The invention describes a cell-transducing HIV-1 Tat-pyridoxal kinase  
XX fusion protein, wherein HIV-1 Tat 49-57 residues are covalently bound to  
XX the amino terminal of the pyridoxal kinase. The protein is useful for  
XX cell-transducing pyridoxal kinase (PK) for protein therapy. A recombinant  
XX polynucleotide encoding the cell-transducing HIV-1 Tat-pyridoxal kinase  
XX fusion protein has the nucleotide sequence of SEQ ID NO: 6. An expression  
XX vector for expressing the cell-transducing HIV-1 Tat-pyridoxal kinase  
XX fusion protein contains the recombinant polynucleotide of SEQ ID NO: 6.  
XX The cell-transducing HIV-1 Tat-pyridoxal kinase fusion protein is useful  
XX for treatment of growth delay, alopecia, anaemia, seizures, convulsions,  
XX Epilepsy, Parkinsonism, Huntington's disease and Depression. This  
XX sequence represents a primer used in the creation of the HIV-1 Tat-  
XX pyridoxal kinase fusion protein of the invention.  
XX  
XX Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;

XX Example; Page 53; 80pp; English.

XX The present sequence is that of a forward PCR primer from exon 3 of the

CC human superoxide dismutase (SOD1) gene. Use with a reverse primer

CC ADG73926 from exon 4 produces a 99 bp amplicon from cDNA, corresponding

CC to a 838 bp sequence of genomic DNA. The primers were used in a SYBR

CC Green I real-time quantitative (Q)-PCR analysis of SOD1 in order to

CC validate differential expression of the gene in cells and tissues of

CC multiple sclerosis (MS) sufferers compared to cells and tissues of non-

CC sufferers. Q-PCR indicated 2.0-fold up-regulation of SOD1 in chronic

CC active MS tissue and 14.0-fold up-regulation in acute plaque MS tissue.

CC The invention provides a method for determining whether an individual is

CC predisposed to MS. This comprises determining an amount of one or more MS

CC tissues obtained from the individual, where if the amount is different to

CC a reference amount, the individual is predisposed to MS. The amount of MS

CC -associated nucleic acid is determined by nucleic acid array analysis or

CC quantitative nucleic acid sequence amplification. The MS-associated

CC nucleic acids may carry mutations or other sequence variations that

CC affect gene expression and contribute to MS pathophysiology. They may be

CC of diagnostic value in predicting a predisposition to MS, confirming

CC clinical diagnosis of MS and in the identification of compounds useful

CC for treating MS.

XX Sequence 22 BP; 4 A; 7 C; 2 G; 9 T; 0 U; 0 Other;

XX Query Match 2.5%; Score 22; DB 1; Length 22;

XX Best Local Similarity 100.0%; Pred. No. 44;

XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 248 GGTCTCACTTTAATCTCTAT 269

DB 1 GGTCTCACTTTAATCTCTAT 22

RESULT 26

ADG73926/c

ID ADG73926 standard; DNA; 22 BP.

XX

AC ADG73926;

XX

DT 11-MAR-2004 (first entry)

XX

DE Human superoxide dismutase reverse PCR primer.

XX

KW Multiple sclerosis; human; diagnosis; superoxide dismutase; PCR; primer;

XX SS; enzyme.

XX

OS Homo sapiens.

XX

PN WO2003102227-A1.

XX

PD 11-DEC-2003.

XX

PF 02-JUN-2003; 2003WO-AU000684.

XX

PR 31-MAY-2002; 2002AU-00002719.

XX

PA (UYGR-) UNIV GRIFFITH.

XX

PI Griffiths LR, Tajouri L;

XX

DR WPI; 2004-081938/08.

XX

XX Determining whether an individual is predisposed to multiple sclerosis

PT (MS), for treating MS, by determining an amount of one or more MS-

PT associated nucleic acids or proteins in one or more cells or tissues

XX obtained from the individual.

XX Example; Page 53; 80pp; English.

XX

XX The present sequence is that of a reverse PCR primer from exon 4 of the

CC human superoxide dismutase (SOD1) gene. Use with a forward primer

CC ADG73925 from exon 3 produces a 99 bp amplicon from cDNA, corresponding

CC to a 838 bp sequence of genomic DNA. The primers were used in a SYBR

CC Green I real-time quantitative (Q)-PCR analysis of SOD1 in order to

CC validate differential expression of the gene in cells and tissues of

CC multiple sclerosis (MS) sufferers compared to cells and tissues of non-

CC sufferers. Q-PCR indicated 2.0-fold up-regulation of SOD1 in chronic

CC active MS tissue and 14.0-fold up-regulation in acute plaque MS tissue.

CC The invention provides a method for determining whether an individual is

CC predisposed to MS. This comprises determining an amount of one or more MS

CC tissues obtained from the individual, where if the amount is different to

CC a reference amount, the individual is predisposed to MS. The amount of MS

CC -associated nucleic acid is determined by nucleic acid array analysis or

CC quantitative nucleic acid sequence amplification. The MS-associated

CC nucleic acids may carry mutations or other sequence variations that

CC affect gene expression and contribute to MS pathophysiology. They may be

CC of diagnostic value in predicting a predisposition to MS, confirming

CC clinical diagnosis of MS and in the identification of compounds useful

CC for treating MS.

XX Sequence 22 BP; 5 A; 6 C; 3 G; 8 T; 0 U; 0 Other;

XX Query Match 2.5%; Score 22; DB 1; Length 22;

XX Best Local Similarity 100.0%; Pred. No. 44;

XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 AATGTGACTGCTGACAAAGATG 344

DB 22 AATGTGACTGCTGACAAAGATG 1

RESULT 27

ADOS9160

ID ADOS9160 standard; DNA; 27 BP.

XX

AC ADOS9160;

XX

DT 15-JUL-2004 (first entry)

XX

DE Human Cu/Zn-superoxide dismutase (Cu/Zn-SOD) DNA PCR primer #1.

XX

KW Human; Tat; superoxide dismutase; Tat-superoxide dismutase; PCR; ss;

XX Cu/Zn-superoxide dismutase; Cu/Zn-SOD; reactive oxygen species; primer.

XX

OS Homo sapiens.

XX

PN KR2002010445-A.

XX

PD 04-FEB-2002.

XX

PF 03-MAR-2001; 2001KR-00010980.

XX

PR 26-JUL-2000; 2000KR-00043039.

XX

PR 02-FEB-2001; 2001KR-00005094.

XX

PA (CHOI/) CHOI S Y.

XX

PA (KANG/) KANG J H.

XX

PA (KWAN/) KWAN H I.

XX

PA (PARK/) PARK J S.

XX

PI Choi SY, Bum WS, Jang HU, Kang JH, Kang TC, Kwan HI, Lee BR;

XX

PI Park JS, Ryu JY, Won MH;

XX

DR WPI; 2003-436529/41.

XX

XX Cell-transducing HIV-1 Tat-superoxide dismutase fusion protein, for

PT countering reactive oxygen species, contains HIV-1 Tat 49-57 residues

PT linked at amino terminal of Cu, Zn-superoxide dismutase to form covalent

XX bond.

XX Example 1; SEQ ID NO 3; 22pp; Korean.

XX

```
PN WO2004039846-A1.
XX
XX 13-MAY-2004.
XX
XX 13-MAR-2003; 2003WO-KR000490.
XX
XX 31-OCT-2002; 2002KR-00066981.
XX
XX (UYHA-) UNIV HALLYM.
XX
XX Choi S, Park J, Han K, Choi J;
XX WPI; 2004-376167/35.
XX
XX New transduction domain-target protein-transduction domain fusion protein
PT having the ability to be transduced into a cell, useful for delivering a
PT functional protein (i.e. superoxide dismutase) into a cell at enhanced
PT efficiency.
XX
XX Disclosure; Page 38; 47pp; English.
XX
XX The present invention relates to a transduction domain-target protein-
CC transduction domain fusion protein having the ability to be transduced
CC into a cell, where the transduction domain is covalently bonded to each
CC of the amino- and carboxyl-terminal ends of the target protein. The
CC fusion protein is useful for delivering a functional protein or peptide
CC (i.e. superoxide dismutase) into a cell at enhanced efficiency. The
CC composition may be used in protein therapy where the superoxide dismutase
CC playing a main role in removing reactive oxygen species is delivered into
CC cells to treat diseases. It may be used in cosmetic and health food
CC industries, in addition to treating various diseases, such as aging or
CC inflammatory diseases. The present sequence is a PCR primer used in the
CC exemplification of the invention.
XX
XX Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
SQ Query Match 2.5%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 53;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGGATCGCCCAATAACATTC 535
DB 27 GTAATTGGGATCGCCCAATAAGGATCC 1

RESULT 24
ADQ74975/c
XX ADQ74975 standard; DNA; 27 BP.
XX
XX AC ADQ74975;
XX
XX 09-SEP-2004 (first entry)
XX
XX Tat-pyridoxal kinase fusion protein associated primer seqid 4.
XX
XX cell-transduction; Tat-pyridoxal kinase fusion protein; HIV-1; Tat;
XX pyridoxal kinase; PK; growth delay; alopecia; anaemia; seizure;
XX convulsion; Epilepsy; Parkinsonism; Huntington's disease; Depression;
XX PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX KR2003090457-A.
XX
XX 28-NOV-2003.
XX
XX 24-MAY-2002; 2002KR-00028940.
XX
XX 24-MAY-2002; 2002KR-00028940.
XX
XX (BAEK/) BAEK N I.
XX (CHOS/) CHO S W.
XX (CHOI/) CHOI S Y.

PA (KANG/) KANG J H.
PA (KWON/) KWON O S.
PA (LEEK/) LEE K S.
PA (PARK/) PARK J S.
XX
XX Baek NI, Ban JH, Cho SW, Choi SY, Kang JH, Kim AY, Kim CG;
XX Kim DW, Kim JA, Kwon OS, Lee KS, Lee YJ, Park JS, Yoon CS;
XX WPI; 2004-255654/24.
XX
XX Cell-transducing hiv-1 tat-pyridoxal kinase fusion protein and the use
XX thereof.
XX
XX Example 1; SEQ ID NO 4; 19pp; Korean.
XX
XX The invention describes a cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein, wherein HIV-1 Tat 49-57 residues are covalently bound to
CC the amino terminal of the pyridoxal kinase. The protein is useful for
CC cell-transducing pyridoxal kinase (PK) for protein therapy. A recombinant
CC polynucleotide encoding the cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein has the nucleotide sequence of SEQ ID NO: 6. An expression
CC vector for expressing the cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein contains the recombinant polynucleotide of SEQ ID NO: 6.
CC The cell-transducing HIV-1 Tat-pyridoxal kinase fusion protein is useful
CC for treatment of growth delay, alopecia, anaemia, seizures, convulsions,
CC Epilepsy, Parkinsonism, Huntington's disease and Depression. This
CC sequence represents a primer used in the creation of the HIV-1 Tat-
CC pyridoxal kinase fusion protein of the invention.
XX
XX Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
SQ Query Match 2.5%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 53;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGGATCGCCCAATAACATTC 535
DB 27 GTAATTGGGATCGCCCAATAAGGATCC 1

RESULT 25
ADG73925
XX ADG73925 standard; DNA; 22 BP.
XX
XX AC ADG73925;
XX
XX 11-MAR-2004 (first entry)
XX
XX Human superoxide dismutase forward PCR primer.
XX
XX Multiple sclerosis; human; diagnosis; superoxide dismutase; PCR; primer;
XX ss; enzyme.
XX
XX Homo sapiens.
XX
XX WO2003102227-A1.
XX
XX 11-DEC-2003.
XX
XX 02-JUN-2003; 2003WO-AU000684.
XX
XX 31-MAY-2002; 2002AU-00002719.
XX
XX (UYGR-) UNIV GRIFFITH.
XX
XX Griffiths LR, Tajouri L;
XX WPI; 2004-081938/08.
XX
XX Determining whether an individual is predisposed to multiple sclerosis
XX (MS), for treating MS, by determining an amount of one or more MS-
XX associated nucleic acids or proteins in one or more cells or tissues
XX obtained from the individual.
```

OS Homo sapiens.  
 PN WO200210219-A1.  
 XX  
 PD 07-FEB-2002.  
 XX  
 PF 21-MAY-2001; 2001WO-KR000835.  
 XX  
 PR 26-JUL-2000; 2000KR-00043022.  
 PR 08-FEB-2001; 2001KR-00006178.  
 PR 03-MAR-2001; 2001KR-00010981.  
 PR 19-MAR-2001; 2001KR-00014147.  
 XX  
 PA (CHOS/) CHO S.  
 PA (CHOI/) CHOI S.  
 PA (PARK/) PARK J.  
 PA (KWON/) KWON H.  
 PA (KANG/) KANG J.  
 PA (KANG/) KANG T.  
 PA (WONM/) WON M.  
 PA (HANK/) HAN K.  
 PA (LEEK/) LEE K.  
 XX  
 PI Choi S, Park J, Kwon H, Kang J, Kang T, Won M, Han K, Lee K;  
 XX WPI; 2002-198723/24.  
 DR  
 XX  
 XX Novel oligolysine transport domain, useful for introducing oligolysine-  
 PT cargo molecule complex into a cell or cell nucleus, is covalently bound  
 PT to a cargo molecule that is not penetrating into cell or cell nucleus.  
 XX  
 XX Example 10; Page 27; 70pp; English.  
 PS  
 XX The invention relates to oligolysine transport domain, an oligolysine  
 XX vector and an oligolysine-cargo molecule complex each of which being  
 CC comprised of a plurality of lysine residues. The oligolysine transducing  
 CC domain-binding fusion protein is efficiently transducible into cytoplasm  
 CC and biologically active. An expression vector comprising a cargo molecule  
 CC cDNA is useful for introducing oligolysine-cargo molecule complex into a  
 CC cell or cell nucleus. Cargo molecule or expression vector comprising a  
 CC cargo molecule cDNA is useful for preventing and treating SOD related  
 CC diseases e.g. glomerulonephritis, autoimmune disease, angitis, apoplexy,  
 CC myocardial infarction, dysrhythmia, angina pectoris, idiopathic  
 CC haemochromatosis, disease occurred from radiation treatment, progeria,  
 CC disease-related aging, sickle-cell anaemia, malaria, pulmonary emphysema,  
 CC myocardiopathy, autoimmune nephrotic syndrome, Alzheimer's disease,  
 CC Betelnut-related oral cancer, Parkinson's disease, hyperbaric oxygen  
 CC disease and cataract. The fusion DNA of the invention is used in gene  
 CC therapy. The present sequence is a PCR primer used to amplify human Zn-  
 CC SOD DNA. This primer is used to prepare vector expressing Lys-SOD fusion  
 CC protein  
 XX  
 SQ Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;  
 Query Match 2.5%; Score 22.2; DB 1; Length 27;  
 Best Local Similarity 88.9%; Pred. No. 53;  
 Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 509 GTAATTGGGATCGCCCAATTAACATTC 535  
 Db 27 GTAATTGGGATCGCCCAATTAAGGATCC 1  
 RESULT 22  
 ADO59161/C  
 ID ADO59161 standard; DNA; 27 BP.  
 XX  
 AC ADO59161;  
 XX  
 XX 15-JUL-2004 (first entry)  
 DT  
 XX Human Cu/Zn-superoxide dismutase (Cu/Zn-SOD) DNA PCR primer #2.  
 DE  
 XX

KW Human; Tat; superoxide dismutase; Tat-superoxide dismutase; PCR; ss;  
 KW Cu/Zn-superoxide dismutase; Cu/Zn-SOD; reactive oxygen species; primer.  
 XX Homo sapiens.  
 PN KR2002010445-A.  
 XX  
 PD 04-FEB-2002.  
 XX  
 PF 03-MAR-2001; 2001KR-00010980.  
 XX  
 PR 26-JUL-2000; 2000KR-00043039.  
 PR 02-FEB-2001; 2001KR-0005094.  
 XX  
 PA (CHOI/) CHOI S Y.  
 PA (KANG/) KANG J H.  
 PA (KWAN/) KWAN H I.  
 PA (PARK/) PARK J S.  
 XX  
 PI Choi SY, Bum WS, Jang HU, Kang JH, Kang TC, Kwan HI, Lee BR;  
 PI Park JS, Ryu JY, Won MH;  
 XX WPI; 2003-436529/41.  
 DR  
 XX Cell-transducing HIV-1 Tat-superoxide dismutase fusion protein, for  
 PT countering reactive oxygen species, contains HIV-1 Tat 49-57 residues  
 PT linked at amino terminal of Cu, Zn-superoxide dismutase to form covalent  
 PT bond.  
 XX  
 PS Example 1; SEQ ID NO 4; 22pp; Korean.  
 XX  
 CC The invention relates to a cell-transducing HIV-1 Tat-superoxide  
 CC dismutase fusion protein containing HIV-1 Tat residues 49-57 linked at  
 CC the amino terminal of Cu/Zn-superoxide dismutase (Cu/Zn-SOD), or its  
 CC derivative, to form a covalent bond. The invention also relates to a  
 CC recombinant polynucleotide that encodes the Tat-superoxide dismutase  
 CC fusion protein, in which the DNA encoding HIV-1 Tat residues 49-57 is  
 CC linked at the 5'-terminal of Cu/Zn-superoxide dismutase cDNA or its  
 CC derivative and a method of introducing the Tat-superoxide dismutase  
 CC fusion protein into a cell, by expressing the expression vector in a  
 CC microorganism, purifying the expressed Tat-superoxide dismutase fusion  
 CC protein and adding the fusion protein to the cell. The sequences and  
 CC methods are used for countering reactive oxygen species that cause damage  
 CC to macromolecules in the human body. This sequence represents a PCR  
 CC primer used to amplify DNA encoding the human Cu/Zn-SOD protein of the  
 CC invention.  
 XX  
 SQ Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;  
 Query Match 2.5%; Score 22.2; DB 1; Length 27;  
 Best Local Similarity 88.9%; Pred. No. 53;  
 Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 509 GTAATTGGGATCGCCCAATTAACATTC 535  
 Db 27 GTAATTGGGATCGCCCAATTAAGGATCC 1  
 RESULT 23  
 ADO06573/C  
 ID ADO06573 standard; DNA; 27 BP.  
 XX  
 AC ADO06573;  
 XX  
 XX 29-JUL-2004 (first entry)  
 DT  
 XX Fusion protein related human coding sequence PCR primer #2.  
 DE  
 XX fusion protein; transduction domain; superoxide dismutase; aging;  
 KW inflammatory disease; PCR; ss; primer.  
 XX  
 OS Homo sapiens.  
 XX

XX WO2003016527-A2.  
 PN  
 XX  
 XX 27-FEB-2003.  
 PD  
 XX  
 XX 13-AUG-2002; 2002WO-EP009079.  
 PF  
 XX  
 XX 14-AUG-2001; 2001BE-00000545.  
 PR  
 XX  
 XX (PROB-) PROBIOX SA.  
 PA  
 XX  
 XX Pincemail J, Piette J, Marechal D;  
 PI  
 XX  
 XX WPI; 2003-268334/26.  
 DR  
 XX  
 XX Determining oxidative stress markers in a group of individuals by  
 PT comparing the amount of each of the oxidative stress markers obtained  
 PT from each of the group of individuals with that of the group of healthy  
 PT individuals.  
 PT  
 XX Disclosure; Page 34; 67pp; English.  
 PS  
 XX The invention relates to a method for determining oxidative stress  
 CC markers in a group of individuals. The method comprises determining the  
 CC risk factor for oxidative stress in the group, measuring the amount of at  
 CC least 10 different oxidative stress markers in a sample obtained from  
 CC each of the group of individuals, and comparing the amount of each of the  
 CC oxidative stress markers with the amount of each of the oxidative stress  
 CC markers measured in a group of healthy individuals to determine whether  
 CC the oxidative stress markers are increased or decreased in the group of  
 CC individuals carrying a risk factor for oxidative stress relative to  
 CC healthy individuals. This sequence represents a PCR primer used to detect  
 CC oxidative stress  
 CC  
 XX Sequence 23 BP; 8 A; 4 C; 6 G; 5 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.6%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 38;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 321 GCAATGTGACTGCTGACAAAGAT 343  
 Db 1 GCAATGTGACTGCTGACAAAGAT 23  
 RESULT 20  
 AAD13501  
 ID AAD13501 standard; DNA; 25 BP.  
 XX  
 XX AAD13501;  
 AC  
 XX 06-NOV-2001 (first entry)  
 DT  
 XX Rat superoxide dismutase (SOD) probe sense strand.  
 DE  
 XX Antioxidative enzyme; catalase; CAT; superoxide dismutase; SOD; therapy;  
 XX reactive oxygen species; ROS; free radical; dietary supplement; stroke;  
 XX AP-1 transcription factor; renal reperfusion damage; cerebral ischaemia;  
 XX myocardial infarction; heart attack; pain; atherosclerosis; neuroleptic;  
 XX trauma; premature aging; neurodegenerative disease; Tardive dyskinesia;  
 XX Parkinson's disease; amyotrophic lateral sclerosis; Alzheimer's disease;  
 XX arthritis; inflammatory disease; diabetes; ulcerative colitis; cataract;  
 XX senility; Down's syndrome; macular degeneration; septic shock; epilepsy;  
 XX polytraumatic shock; schizophrenia; antileuk; clozapine; Huntington's disease;  
 XX cardiact; cerebroprotective; vulnerable; neurotropic; neurotropic; burn;  
 XX anticonvulsant; neuroprotective; antiarthritis; antibacterial;  
 XX immunosuppressive; probe; ss.  
 XX Rattus sp.  
 OS  
 XX WO200136454-A1.  
 PN

PD 25-MAY-2001.  
 XX  
 XX 17-NOV-2000; 2000WO-US031764.  
 PF  
 XX  
 XX 18-NOV-1999; 99US-0166381P.  
 PR  
 XX  
 XX (CERE-) CEREMEDIX INC.  
 PA  
 XX  
 XX Shashoua VR;  
 PI  
 XX  
 XX WPI; 2001-496512/54.  
 DR  
 XX  
 XX Novel peptide compound that up regulates expression of a gene encoding  
 PT antioxidative enzymes, used to treat or prevent conditions caused by  
 PT undesirable elevation of reactive oxygen species and other free radicals.  
 PT  
 XX Example 2; Page 46; 102pp; English.  
 PS  
 XX The invention relates to peptide compounds and methods for upregulating  
 CC expression of a gene encoding an antioxidative enzyme, such as catalase  
 CC (CAT) or superoxide dismutase (SOD), to counteract harmful oxidative  
 CC effects of reactive oxygen species (ROS) and other free radicals. The  
 CC peptides are used as components of pharmaceuticals and dietary  
 CC supplements. The peptides are used to treat or to prevent diseases and  
 CC conditions characterised by undesirable elevation of ROS and other free  
 CC radicals, to upregulate AP-1 transcription factor gene expression and to  
 CC treat pain. The disease or conditions include renal reperfusion damage, and  
 CC cerebral ischaemia (stroke), myocardial infarction (heart attack), head  
 CC trauma, atherosclerosis, brain trauma, oxygen toxicity in premature  
 CC infants, premature aging, spinal cord trauma, neurodegenerative diseases,  
 CC Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,  
 CC Alzheimer's disease, arthritis and other inflammatory diseases, diabetes,  
 CC ulcerative colitis, human leukaemia and other cancers characterised by  
 CC elevation of ROS or free radicals, age-related elevation of ROS or free  
 CC radicals, senility, Down's syndrome, macular degeneration, cataracts,  
 CC septic shock, polytraumatic shock, schizophrenia, burn injuries,  
 CC epilepsy, radiation and/or drug-induced elevation of ROS and free  
 CC radicals, where the drug is a neuroleptic or a drug such as clozapine  
 CC defined in the specification and tardive dyskinesia. The present sequence  
 CC is rat SOD probe sense strand  
 XX  
 SQ Sequence 25 BP; 5 A; 5 C; 10 G; 5 T; 0 U; 0 Other;  
 Query Match 2.6%; Score 22.4; DB 1; Length 25;  
 Best Local Similarity 95.8%; Pred. No. 47;  
 Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 312 GAGACTTGGCAATGTGACTGCTG 335  
 Db 1 GAGACTTGGCAATGTGACTGCTG 24  
 RESULT 21  
 AAD29666/C  
 ID AAD29666 standard; DNA; 27 BP.  
 XX  
 XX AAD29666;  
 AC  
 XX 17-MAY-2002 (first entry)  
 DT  
 XX Human Zn-SOD amplifying reverse primer.  
 DE  
 XX Oligolysine; transducing domain; oligolysine-cargo molecule complex;  
 XX SOD related disease; angitis; glomerulonephritis; autoimmune disease;  
 XX apoplexy; myocardial infarction; dysrhythmia; angina pectoris; malaria;  
 XX cytoplasm; idiopathic haemochromatosis; radiation treatment; progeria;  
 XX disease-related aging; sickle-cell anaemia; pulmonary emphysema;  
 XX myocardiodiopathy; autoimmune nephrotic syndrome; Alzheimer's disease;  
 XX betelnut-related oral cancer; hyperbaric oxygen disease; gene therapy;  
 XX Parkinson's disease; cataract; nephrotropic; cytostatic; neurotropic;  
 XX hepatotrophic; neuroprotective; ophthalmological; immunosuppressive;  
 XX protozoacide; cardiant; human; Zn-SOD; PCR primer; ss.



CC The invention relates to a composition that comprises 2-methoxyestradiol  
 CC and an agent that increases intracellular superoxide anion. 2-  
 CC methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic  
 CC SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the  
 CC cell's ability to eliminate superoxide anion. The composition can be used  
 CC for killing cells (preferably cancer cells derived from a solid tumour  
 CC especially leukemia cells) in humans; for treating cancer in humans.  
 CC Sequences ABA94685-686 represent PCR primers for amplifying SOD1 cDNA  
 XX  
 SQ Sequence 23 BP; 9 A; 9 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 2.6%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 38;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 486 CTGGAAGTCGTTGGCTTGCTGGT 508  
 DB 23 CTGGAAGTCGTTGGCTTGCTGGT 1

RESULT 17  
 ABA94685  
 ID ABA94685 standard; DNA; 23 BP.  
 XX ABA94685;  
 XX  
 DT 23-APR-2002 (first entry)  
 XX  
 DE Superoxide dismutase SOD1 cDNA amplifying forward primer.  
 XX  
 KW 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;  
 KW cytosolic; cancer; tumour; SOD1; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200203979-A2.  
 XX  
 PD 17-JAN-2002.  
 XX  
 PF 11-JUL-2001; 2001WO-US022332.  
 XX  
 PR 12-JUL-2000; 2000US-0217589P.  
 PR 05-JUL-2001; 2001US-00899807.  
 XX  
 PA (TEXA ) UNIV TEXAS SYSTEM.  
 XX  
 PI Huang P, Plunkett WK, Feng L;  
 XX  
 DR WPI; 2002-164592/21.

Composition for treating cancer comprises 2-methoxyestradiol and an agent  
 that increases intracellular superoxide anion.  
 Example 1; Page 37; 91pp; English.

The invention relates to a composition that comprises 2-methoxyestradiol  
 and an agent that increases intracellular superoxide anion. 2-  
 methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic  
 SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the  
 cell's ability to eliminate superoxide anion. The composition can be used  
 for killing cells (preferably cancer cells derived from a solid tumour  
 especially leukemia cells) in humans; for treating cancer in humans.  
 Sequences ABA94685-686 represent PCR primers for amplifying SOD1 cDNA  
 XX  
 SQ Sequence 23 BP; 5 A; 5 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 2.6%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 38;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 71 ACCAAGCCGCTGCTGCTGAA 93  
 DB 1 ACCAAGCCGCTGCTGCTGAA 23

RESULT 18  
 ABX12365/c  
 ID ABX12365 standard; DNA; 23 BP.  
 XX ABX12365;  
 AC ABX12365;  
 XX  
 DT 10-MAY-2003 (first entry)  
 XX  
 DE Oxidative stress detection PCR primer #6.  
 XX  
 KW Oxidative stress detection; PCR; primer; ss; risk factor.  
 OS Homo sapiens.  
 PN WO2003016527-A2.  
 XX  
 PD 27-FEB-2003.  
 XX  
 PF 13-AUG-2002; 2002WO-EF009079.  
 XX  
 PR 14-AUG-2001; 2001BE-00000545.  
 XX  
 PA (PROB-) PROBIOX SA.  
 XX  
 PI Pincemail J; Piette J, Marechal D;  
 XX  
 DR WPI; 2003-268334/26.  
 XX  
 PT Determining oxidative stress markers in a group of individuals by  
 PT comparing the amount of each of the oxidative stress markers obtained  
 PT from each of the group of individuals with that of the group of healthy  
 PT individuals.  
 XX  
 PS Disclosure; Page 34; 67pp; English.  
 XX  
 CC The invention relates to a method for determining oxidative stress  
 CC markers in a group of individuals. The method comprises determining the  
 CC risk factor for oxidative stress in the group, measuring the amount of at  
 CC least 10 different oxidative stress markers in a sample obtained from  
 CC each of the group of individuals, and comparing the amount of each of the  
 CC oxidative stress markers with the amount of each of the oxidative stress  
 CC markers measured in a group of healthy individuals to determine whether  
 CC the oxidative stress markers are increased or decreased in the group of  
 CC individuals carrying a risk factor for oxidative stress relative to  
 CC healthy individuals. This sequence represents a PCR primer used to detect  
 CC oxidative stress  
 XX  
 SQ Sequence 23 BP; 6 A; 4 C; 7 G; 6 T; 0 U; 0 Other;  
 Query Match 2.6%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 38;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 383 CTCCTCAGGAGACCATTCATCAT 405  
 DB 23 CTCCTCAGGAGACCATTCATCAT 1  
 RESULT 19  
 ABX12364  
 ID ABX12364 standard; DNA; 23 BP.  
 XX  
 AC ABX12364;  
 XX  
 DT 10-MAY-2003 (first entry)  
 XX  
 DE Oxidative stress detection PCR primer #5.  
 XX  
 KW Oxidative stress detection; PCR; primer; ss; risk factor.  
 OS Homo sapiens.

XX DE Human SOD1 exon 5 PCR primer #2.  
 XX KW SOD1: SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;  
 KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;  
 KW familial; ALS; PCR primer; ss.  
 XX OS Synthetic.  
 XX OS Homo sapiens.  
 XX PN US5849290-A.  
 XX PD 15-DEC-1998.  
 XX PF 07-JUN-1995; 95US-00486953.  
 XX PR 26-FEB-1993; 93US-00023980.  
 XX PR 28-FEB-1994; 94US-00204052.  
 XX PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 XX PA (GEO ) GEN HOSPITAL CORP.  
 XX PI Rosen DR, Brown R, Horvitz HR;  
 XX XX WPI; 1999-069657/06.  
 XX XX Treatment of neurodegenerative disease - by administering super-oxide  
 PT dismutase.  
 XX PS Disclosure; Fig 5; 53pp; English.  
 XX CC AAV73826-V73835 are PCR primers used in the amplification of a novel  
 CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.  
 CC This protein can be used in a method for treating a neurodegenerative  
 CC disease particularly familial amyotrophic lateral sclerosis (ALS)  
 XX  
 XX SQ Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 2.7%; Score 24; DB 1; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 33;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 556 CCCTTAACCTCATCTGTTATCCTGC 579  
 Db 24 CCCTTAACCTCATCTGTTATCCTGC 1  
 RESULT 15  
 ADO55698/c  
 ID ADO55698 standard; DNA; 24 BP.  
 XX AC ADO55698;  
 XX XX 15-JUL-2004 (first entry)  
 XX DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #10.  
 XX KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;  
 KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.  
 XX OS Homo sapiens.  
 XX PN US6723893-B1.  
 XX PD 20-APR-2004.  
 XX PF 28-FEB-1994; 94US-00204052.  
 XX PR 26-FEB-1993; 93US-00023980.  
 XX PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 XX PA (GEO ) GEN HOSPITAL CORP INC.

PI Brown R, Horvitz HR, Rosen DR;  
 XX WPI; 2004-326924/30.  
 XX PT New transgenic mouse having somatic and germ cells containing a transgene  
 PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1  
 PT polypeptide, useful for research or drug development.  
 XX PS Disclosure; SEQ ID NO 13; 54pp; English.  
 XX XX The invention relates to a transgenic mouse having somatic and germ cells  
 CC containing a transgene encoding and expressing a neurodegenerative  
 CC disease-causing mutant SOD1 polypeptide. The invention also relates to a  
 CC method of diagnosing an increased likelihood of developing cell death  
 CC disease in a patient, a kit for the diagnosis of cell death disease in a  
 CC patient, a method of treating a patient with a disease involving a mutant  
 CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method  
 CC of treating a patient with a neoplasm, a bacterial or yeast cell  
 CC containing a purified nucleic acid derived from a FALS gene, a purified  
 CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.  
 CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The  
 CC expression of the mutant polypeptide is under the regulation of the wild-  
 CC type promoter. The transgenic mouse is useful for research or drug  
 CC development. This sequence represents a PCR primer used to amplify SOD1  
 CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)  
 CC polypeptide.  
 XX SQ Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 2.7%; Score 24; DB 1; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 33;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 556 CCCTTAACCTCATCTGTTATCCTGC 579  
 Db 24 CCCTTAACCTCATCTGTTATCCTGC 1  
 RESULT 16  
 ABA94686/c  
 ID ABA94686 standard; DNA; 23 BP.  
 XX AC ABA94686;  
 XX DT 23-APR-2002 (first entry)  
 XX DE Superoxide dismutase SOD1 cDNA amplifying reverse primer.  
 XX KW 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;  
 KW cytostatic; cancer; tumour; SOD1; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX PN WO200203979-A2.  
 XX PD 17-JAN-2002.  
 XX PF 11-JUL-2001; 2001WO-US022332.  
 XX PR 12-JUL-2000; 2000US-0217589P.  
 XX PR 05-JUL-2001; 2001US-00899807.  
 XX PA (TEXA ) UNIV TEXAS SYSTEM.  
 XX PI Huang P, Plunkett WK, Feng L;  
 XX WPI; 2002-164592/21.  
 XX PT Composition for treating cancer comprises 2-methoxyestradiol and an agent  
 XX that increases intracellular superoxide anion.  
 XX PS Example 1; Page 37; 91pp; English.  
 XX XX

CC comprising the populations for each physiological source to identify  
 CC differences in the population, where the comparison is preferably  
 CC performed by hybridising the labeled NAs for each of the distinct  
 CC physiological sources to an array of probe NAs stably associated with the  
 CC surface of a substrate to produce a hybridisation pattern for each of the  
 CC sources, and comparing the patterns for each of the sources, where  
 CC differential gene expression assays are utilised in differential  
 CC expression analysis of diseased a normal tissue e.g. neoplastic a normal  
 CC tissue, or different tissue or subtype types. The present sequence is a  
 CC human gene specific PCR primer used in the method of the invention. Note:  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from USPTO  
 CC at <http://wipo.segdata.uspto.gov/sequence.html?docID=6352829B1>  
 XX  
 SQ Sequence 28 BP; 7 A; 5 C; 9 G; 7 T; 0 U; 0 Other;

Query Match 3.2%; Score 28; DB 1; Length 28;  
 Best Local Similarity 100.0%; Pred. No. 17;  
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 376 GATCTCACTCTCAGGAGACCATTCGATC 403  
 DB 28 GATCTCACTCTCAGGAGACCATTCGATC 1

RESULT 12  
 ABA94683/c  
 ID ABA94683 standard; DNA; 27 BP.  
 AC ABA94683;  
 XX  
 DT 23-APR-2002 (first entry)  
 DE Antisense S-oligo against superoxide dismutase SOD1.  
 KW 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;  
 KW cytostatic; cancer; tumour; SOD1; antisense; ss.  
 OS Synthetic.  
 XX  
 PN WO200203979-A2.  
 XX  
 PD 17-JAN-2002.  
 XX  
 PF 11-JUL-2001; 2001WO-US022332.  
 XX  
 PR 12-JUL-2000; 2000US-0217589P.  
 PR 05-JUL-2001; 2001US-00899807.  
 XX  
 PA (TEXA ) UNIV TEXAS SYSTEM.  
 XX  
 PI Huang P, Plunkett WK, Feng L;  
 XX  
 DR WPI; 2002-164592/21.  
 XX  
 PT Composition for treating cancer comprises 2-methoxyestradiol and an agent  
 PT that increases intracellular superoxide anion.  
 XX  
 PS Disclosure; Page 6; 91pp; English.  
 XX  
 CC The invention relates to a composition that comprises 2-methoxyestradiol  
 CC and an agent that increases intracellular superoxide anion. 2-  
 CC methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic  
 CC SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the  
 CC cell's ability to eliminate superoxide anion. The composition can be used  
 CC for killing cells (preferably cancer cells) derived from a solid tumour  
 CC especially leukemia cells) in humans; for treating cancer in humans.  
 CC Sequences ABA94683-684 represent antisense S-oligos directed against SOD1  
 XX  
 SQ Sequence 27 BP; 6 A; 11 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 3.1%; Score 27; DB 1; Length 27;  
 Best Local Similarity 100.0%; Pred. No. 20;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 61 AGTTATGGCGACGAAGCGCGTGTGCGT 87  
 DB 27 AGTTATGGCGACGAAGCGCGTGTGCGT 1  
 RESULT 13  
 AAQ67485/c  
 ID AAQ67485 standard; DNA; 24 BP.  
 XX  
 AC AAQ67485;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 31-MAY-1995 (first entry)  
 XX  
 DE PCR primer for human SOD1 exon 5.  
 XX  
 KW Human superoxide dismutase; hSOD1; neurodegeneration;  
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease;  
 KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;  
 KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;  
 KW SSCP analysis; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9419493-A1.  
 XX  
 PD 01-SEP-1994.  
 XX  
 PF 28-FEB-1994; 94WO-US002089.  
 XX  
 PR 26-FEB-1993; 93US-00023980.  
 XX  
 PA (GEHO ) GEN HOSPITAL CORP.  
 PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
 XX  
 PI Brown R, Horvitz HR, Rosen DR;  
 XX  
 DR WPI; 1994-294353/36.  
 XX  
 PT Diagnosis, treatment and prevention of diseases of cell death - e.g.  
 PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD  
 PT activity.  
 XX  
 PS Claim 8; Fig 5; 94pp; English.  
 XX  
 CC The presence of a mutation in a gene encoding a superoxide dismutase  
 CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a  
 CC cell death disease, specifically a neurodegenerative disease. The DNA can  
 CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by  
 CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers  
 CC which are useful for diagnosis of diseases linked to SOD1 mutations.  
 CC (Updated on 25-MAR-2003 to correct PN field.)  
 XX  
 SQ Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 2.7%; Score 24; DB 1; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 33;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTATCTCTGC 579  
 DB 24 CCCTTAACCTCATCTGTATCTCTGC 1

RESULT 14  
 AA73835/c  
 ID AA73835 standard; DNA; 24 BP.  
 XX  
 AC AA73835;  
 XX  
 DT 24-FEB-1999 (first entry)



XX 31-JUL-1992.  
 XX 11-DEC-1990; 90JP-00401323.  
 XX 11-DEC-1990; 90JP-00401323.  
 XX (SUNR ) SUNTORY LTD.  
 XX (INOUE/) INOUE M.  
 XX WPI; 1992-304666/37.  
 XX New hypotensive agents - comprise superoxidizedismutase with attached  
 PT heparin binding site.  
 XX Disclosure; Page 4; 9pp; Japanese.  
 CC The sequences given in NAQ27817-20 are primers which were used to amplify  
 CC the superoxidase dismutase (SOD) gene which is used in the production of  
 CC a new hypotensive agent. The amplification product of these reactions is  
 CC ligated to a heparin binding site (HBS). SOD does not naturally contain  
 CC an HBS. This new construct can exert hypotensive activity in vivo as the  
 CC active component can be concentrated in the blood vessel endothelial  
 CC cells  
 XX Sequence 40 BP; 14 A; 6 C; 12 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 4.6%; Score 40; DB 1; Length 40;  
 Best Local Similarity 100.0%; Pred. No. 2.1;  
 Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 464 GAAAGTACAAAGACAGGAAACGCTGGAAGTGGTTCGCTT 503  
 DB 1 GAAAGTACAAAGACAGGAAACGCTGGAAGTGGTTCGCTT 40  
 RESULT 8  
 ADE52418  
 ID ADE52418 standard; DNA; 35 BP.  
 XX ADE52418;  
 XX 29-JAN-2004 (first entry)  
 XX Wild-type human SOD1 partial DNA sequence.  
 XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;  
 KW target DNA sequence; RNA polymerase termination signal;  
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;  
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytosolic;  
 KW haemostatic; virucide; antibacterial; neuroprotective; nootropic;  
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;  
 KW ds.  
 XX Homo sapiens.  
 XX US2003180756-A1.  
 XX 25-SEP-2003.  
 XX 21-NOV-2002; 2002US-00301516.  
 XX 21-MAR-2002; 2002US-0366478P.  
 XX (SHIY/) SHI Y.  
 XX (SUIG/) SUI G.  
 XX Shi Y, Sui G;  
 XX WPI; 2003-852231/79.  
 XX  
 PT New nucleic acids, useful for inhibiting the synthesis of a target  
 PT protein in a eukaryotic cell, or for treating various diseases by  
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,  
 PT viral or bacterial infection.  
 XX Example 6; Fig 7A; 38pp; English.  
 XX The present invention relates to a method for suppressing gene expression  
 CC in cells, particularly eukaryotic cells. The method involves a new  
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter  
 CC sequence, a first target sequence that is essentially complementary to a  
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a  
 CC second target sequence that is essentially complementary to the first  
 CC target sequence, and an RNA polymerase termination signal, where an RNA  
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin  
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and  
 CC the polymerase termination signal comprises a number of thymidines  
 CC sufficient for arresting Pol III activity. The nucleic acids and methods  
 CC are useful for suppressing gene expression in cells, or inhibiting the  
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a  
 CC subject. The nucleic acids can be used for treating various diseases by  
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers  
 CC such as leukaemia, haemophilia, viral or bacterial infections, and  
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's  
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).  
 CC The present sequence represents a partial DNA sequence from the wild-type  
 CC human superoxide dismutase 1 (SOD1) gene.  
 XX Sequence 35 BP; 8 A; 6 C; 11 G; 10 T; 0 U; 0 Other;  
 SQ Query Match 4.0%; Score 35; DB 1; Length 35;  
 Best Local Similarity 100.0%; Pred. No. 5.1;  
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 329 ACTGCTGACAAAGATGCTGCGCCGATGCTCTAT 363  
 DB 1 ACTGCTGACAAAGATGCTGCGCCGATGCTCTAT 35  
 RESULT 9  
 ADO43055  
 ID ADO43055 standard; mRNA; 35 BP.  
 XX ADO43055;  
 XX 12-AUG-2004 (first entry)  
 XX Superoxide dismutase wild-type target for RNA interference.  
 DE Superoxide dismutase; SOD; enzyme; amyotrophic lateral sclerosis;  
 XX RNA interference; gene silencing; human; ss.  
 KW Homo sapiens.  
 OS WO2004042027-A2.  
 XX 21-MAY-2004.  
 XX 04-NOV-2003; 2003WO-US035009.  
 XX 04-NOV-2002; 2002US-0423507P.  
 PR 18-JUL-2003; 2003US-0488283P.  
 XX (UYMA-) UNIV MASSACHUSETTS.  
 XX Xu Z, Zamore PD;  
 PI WPI; 2004-390611/36.  
 XX Inhibiting expression of a target allele in a cell comprising at least  
 PT two different alleles of a gene, for treating CNS disorders, comprises  
 PT administering to the cell an siRNA specific for the target allele.





253 12.8 1.5 16 1 ADI53301 Target molecule de  
254 12.8 1.5 16 1 ADO43601 Mutant DNA fragmen  
c 255 12.6 1.4 13 1 ABH27646 Oligonucleotide SE  
256 12.6 1.4 13 1 ABH27647 Oligonucleotide SE  
257 12.6 1.4 15 1 ABK28501 Paraoxonase 2 (PON

ALIGNMENTS

RESULT 1  
ABZ00314  
ID ABZ00314 standard; DNA; 50 BP.  
XX  
AC ABZ00314;  
XX  
DT 09-JAN-2003 (first entry)  
XX  
DE Human leukocyte gene expression profiling probe SEQ ID NO 305.  
XX  
XX  
XX T7; leukocyte; gene expression profiling; allograft rejection;  
KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;  
KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;  
KW ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200257414-A2.  
XX  
PD 25-JUL-2002.  
XX  
PF 22-OCT-2001; 2001WO-US047856.  
XX  
PR 20-OCT-2000; 2000US-0241994P.  
PR 08-JUN-2001; 2001US-0296764P.  
XX  
PA (BIOC-) BIOCARDIA INC.  
XX  
PI Wohlgenuth J, Fry K, Matcuk G, Altman P, Prentice J, Phillips J;  
PI Ly N, Woodward R, Quettermous T, Johnson F;  
XX  
DR WPI; 2002-636525/68.  
XX  
XX New system for leukocyte expression profiling, diagnosing a disease, or  
PT monitoring (the rate of) progression of a disease, e.g. atherosclerosis  
PT or congestive heart failure, comprises diagnostic oligonucleotides.  
XX  
PS Claim 1; Page 336; Opp; English.  
XX  
XX The invention relates to a system for detecting gene expression, which  
CC comprises one or two isolated DNA molecules that detect expression of a  
CC gene, where the gene corresponds to any of 8143 oligonucleotides  
CC (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful  
CC for leukocyte expression profiling. It is particularly useful for  
CC diagnosing a disease, monitoring (rate of) progression of a disease,  
CC predicting therapeutic outcome, determining prognosis for a patient,  
CC predicting disease complications in an individual or monitoring response  
CC to treatment in an individual. The diseases include cardiac allograft  
CC rejection, kidney allograft rejection, liver allograft rejection,  
CC atherosclerosis, congestive heart failure, systemic lupus erythematosus,  
CC rheumatoid arthritis, osteoarthritis or cytomegalovirus infection  
XX  
SQ Sequence 50 BP; 9 A; 15 C; 9 G; 17 T; 0 U; 0 Other;

Query Match 5.7%; Score 50; DB 1; Length 50;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 530 ACATTCCTTGGATGATCTAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 579  
DB 1 ACATTCCTTGGATGATCTAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 50

RESULT 2  
ABZ01960  
ID ABZ01960 standard; DNA; 50 BP.  
XX  
AC ABZ01960;  
XX  
DT 09-JAN-2003 (first entry)  
XX  
DE Human leukocyte gene expression profiling probe SEQ ID NO 1951.  
XX  
XX T7; leukocyte; gene expression profiling; allograft rejection;  
KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;  
KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;  
KW ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200257414-A2.  
XX  
PD 25-JUL-2002.  
XX  
PF 22-OCT-2001; 2001WO-US047856.  
XX  
PR 20-OCT-2000; 2000US-0241994P.  
PR 08-JUN-2001; 2001US-0296764P.  
XX  
PA (BIOC-) BIOCARDIA INC.  
XX  
PI Wohlgenuth J, Fry K, Matcuk G, Altman P, Prentice J, Phillips J;  
PI Ly N, Woodward R, Quettermous T, Johnson F;  
XX  
DR WPI; 2002-636525/68.  
XX  
XX New system for leukocyte expression profiling, diagnosing a disease, or  
PT monitoring (the rate of) progression of a disease, e.g. atherosclerosis  
PT or congestive heart failure, comprises diagnostic oligonucleotides.  
XX  
PS Claim 1; Page 388; Opp; English.  
XX  
XX The invention relates to a system for detecting gene expression, which  
CC comprises one or two isolated DNA molecules that detect expression of a  
CC gene, where the gene corresponds to any of 8143 oligonucleotides  
CC (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful  
CC for leukocyte expression profiling. It is particularly useful for  
CC diagnosing a disease, monitoring (rate of) progression of a disease,  
CC predicting therapeutic outcome, determining prognosis for a patient,  
CC predicting disease complications in an individual or monitoring response  
CC to treatment in an individual. The diseases include cardiac allograft  
CC rejection, kidney allograft rejection, liver allograft rejection,  
CC atherosclerosis, congestive heart failure, systemic lupus erythematosus,  
CC rheumatoid arthritis, osteoarthritis or cytomegalovirus infection  
XX  
SQ Sequence 50 BP; 9 A; 15 C; 9 G; 17 T; 0 U; 0 Other;

Query Match 5.7%; Score 50; DB 1; Length 50;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 530 ACATTCCTTGGATGATCTAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 579  
DB 1 ACATTCCTTGGATGATCTAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 50

RESULT 3  
ADE52413  
ID ADE52413 standard; RNA; 48 BP.  
XX  
AC ADE52413;  
XX  
DT 29-JAN-2004 (first entry)  
XX  
DE Wild-type human SOD1 partial RNA sequence.  
XX



c 107	20	2.3	21	1	AAQ67477	PCR primer for hum	180	14.4	1.6	17	1	ABT37806	Tumour suppression
c 108	20	2.3	21	1	AAV73827	Human SOD1 exon 1	181	14.4	1.6	17	1	ABT37917	Tumour suppression
c 109	20	2.3	21	1	AD055690	Human cytosolic su	182	14.4	1.6	17	1	ACF62525	Cancer based on Cy
c 110	20	2.3	25	1	AD043049	Short interfering	183	14.4	1.6	17	1	ACF62524	Cancer based on Cy
c 111	19.8	2.3	23	1	AB075418	CuZn superoxide di	184	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 112	19.4	2.2	23	1	AD052404	Target DNA sequenc	185	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 113	19.4	2.2	21	1	AD052403	Target DNA sequenc	186	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 114	19.4	2.2	22	1	AA081808	Probe used to iden	187	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 115	19.2	2.2	23	1	AD052415	siRNA p9 sequence	188	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 116	19.2	2.2	23	1	AD052417	siRNA p11 sequence	189	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 117	19	2.2	19	1	AA060181	Sequence of probe	190	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 118	19	2.2	19	1	AA060181	Cu/Zn SOD gene rel	191	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 119	19	2.2	19	1	AD080680	Human cytosolic su	192	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 120	19	2.2	23	1	AD052425	siRNA p10 sequence	193	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 121	19	2.2	23	1	AD052424	siRNA p11 sequence	194	14.4	1.6	17	1	AD321195	MRP1 based cancer
c 122	19	2.2	23	1	AD052423	siRNA p9 sequence	195	14.4	1.6	17	1	AD321196	MRP1 based cancer
c 123	18.4	2.1	20	1	AAV01384	Superoxide dismuta	196	14	1.6	17	1	AD321195	MRP1 based cancer
c 124	18	2.1	18	1	AD766434	PCR primer for CuZ	197	14	1.6	17	1	AD321196	MRP1 based cancer
c 125	17.4	2.0	19	1	AD052401	Target DNA sequenc	198	14	1.6	17	1	AD321195	MRP1 based cancer
c 126	17.4	2.0	19	1	AD052402	Target DNA sequenc	199	14	1.6	17	1	AD321196	MRP1 based cancer
c 127	17.4	2.0	20	1	AB291893	Human oligonucleot	200	14	1.6	17	1	AD321195	MRP1 based cancer
c 128	17.4	2.0	20	1	ABD28123	AA156940-derived o	201	14	1.6	17	1	AD321196	MRP1 based cancer
c 129	17.4	2.0	21	1	AB098129	Human multidrug re	202	14	1.6	17	1	AD321195	MRP1 based cancer
c 130	17	1.9	17	1	ABT36210	Tumour suppression	203	14	1.6	17	1	AD321196	MRP1 based cancer
c 131	17	1.9	17	1	ABT39565	Tumour suppression	204	14	1.6	17	1	AD321195	MRP1 based cancer
c 132	17	1.9	17	1	AD149574	Human tumour suppr	205	14	1.6	17	1	AD321196	MRP1 based cancer
c 133	17	1.9	17	1	AD152307	Human tumour suppr	206	14	1.6	17	1	AD321195	MRP1 based cancer
c 134	17	1.9	17	1	ACC53333	Human tumour suppr	207	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 135	17	1.9	17	1	ACC51634	Human tumour suppr	208	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 136	17	1.9	19	1	ABQ75416	CuZn superoxide di	209	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 137	17	1.9	21	1	AAQ67479	PCR primer for hum	210	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 138	17	1.9	21	1	AAV73829	Human SOD1 exon 2	211	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 139	17	1.9	21	1	AD055692	Human cytosolic su	212	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 140	17	1.9	21	1	AD055693	Human cytosolic su	213	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 141	16.8	1.9	20	1	AA038674	Mouse SOD-1 exon 4	214	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 142	16.8	1.9	20	1	AA038674	Primer for exon 23	215	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 143	16.8	1.9	21	1	AAQ67482	PCR primer for hum	216	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 144	16.8	1.9	21	1	AAV73832	Human SOD1 exon 4	217	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 145	16.8	1.9	21	1	AD055695	Human cytosolic su	218	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 146	16.4	1.9	20	1	AD179800	Human HMG-CoA redu	219	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 147	16.4	1.9	20	1	AD179800	Human HMG-CoA redu	220	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 148	16	1.8	17	1	AA091027	Human multi drug r	221	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 149	16	1.8	17	1	AD150808	Human tumour suppr	222	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 150	16	1.8	17	1	AD150799	Human tumour suppr	223	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 151	16	1.8	18	1	ABK41012	Human obesity-asso	224	13.8	1.6	17	1	AD321195	MRP1 based cancer
c 152	16	1.8	19	1	AA050752	PAL/alpha-tubulin-	225	13.8	1.6	17	1	AD321196	MRP1 based cancer
c 153	16	1.8	19	1	AD083390	Coffea arabica PAL	226	13.4	1.5	15	1	AD321195	MRP1 based cancer
c 154	15.6	1.8	17	1	ACF62527	Cancer based on Cy	227	13.4	1.5	15	1	AD321196	MRP1 based cancer
c 155	15.6	1.8	17	1	AD083390	MRP1 based cancer	228	13.4	1.5	15	1	AD321195	MRP1 based cancer
c 156	15.6	1.8	17	1	AD083390	MRP1 based cancer	229	13.4	1.5	15	1	AD321196	MRP1 based cancer
c 157	15.6	1.8	17	1	AD083390	MRP1 based cancer	230	13.4	1.5	15	1	AD321195	MRP1 based cancer
c 158	15.6	1.8	17	1	AD083390	MRP1 based cancer	231	13.4	1.5	15	1	AD321196	MRP1 based cancer
c 159	15.4	1.8	17	1	AA030382	Human MDR1 varia	232	13.4	1.5	15	1	AD321195	MRP1 based cancer
c 160	15.4	1.8	17	1	AA030383	Human MDR1 varia	233	13.4	1.5	15	1	AD321196	MRP1 based cancer
c 161	15	1.7	15	1	AA061205	Sequence of probe	234	13	1.5	13	1	AD321195	MRP1 based cancer
c 162	15	1.7	15	1	AA061205	Human SOD probe.	235	13	1.5	13	1	AD321196	MRP1 based cancer
c 163	15	1.7	15	1	AD043600	Wild type DNA frag	236	13	1.5	13	1	AD321195	MRP1 based cancer
c 164	15	1.7	15	1	AD043606	Human MDR1 varia	237	13	1.5	13	1	AD321196	MRP1 based cancer
c 165	15	1.7	17	1	AAH21294	Human MDR-1 allele	238	13	1.5	13	1	AD321195	MRP1 based cancer
c 166	15	1.7	17	1	AAH21293	Human MDR-1 allele	239	13	1.5	13	1	AD321196	MRP1 based cancer
c 167	15	1.7	17	1	AA091028	Human multi drug r	240	13	1.5	13	1	AD321195	MRP1 based cancer
c 168	15	1.7	17	1	ABT38676	Tumour suppression	241	13	1.5	13	1	AD321196	MRP1 based cancer
c 169	15	1.7	17	1	ACF62526	Cancer based on Cy	242	13	1.5	13	1	AD321195	MRP1 based cancer
c 170	15	1.7	17	1	AD083390	MRP1 based cancer	243	13	1.5	13	1	AD321196	MRP1 based cancer
c 171	15	1.7	17	1	AD083390	MRP1 based cancer	244	13	1.5	13	1	AD321195	MRP1 based cancer
c 172	15	1.7	17	1	AD083390	MRP1 based cancer	245	13	1.5	13	1	AD321196	MRP1 based cancer
c 173	15	1.7	17	1	AD083390	MRP1 based cancer	246	13	1.5	13	1	AD321195	MRP1 based cancer
c 174	14.4	1.6	17	1	AA023007	Integrin subunit b	247	13	1.5	13	1	AD321196	MRP1 based cancer
c 175	14.4	1.6	17	1	AA050438	Hammerhead ribozym	248	13	1.5	13	1	AD321195	MRP1 based cancer
c 176	14.4	1.6	17	1	AA050438	Hammerhead ribozym	249	13	1.5	13	1	AD321196	MRP1 based cancer
c 177	14.4	1.6	17	1	AA050438	Hammerhead ribozym	250	13	1.5	13	1	AD321195	MRP1 based cancer
c 178	14.4	1.6	17	1	AA050438	Hammerhead ribozym	251	13	1.5	13	1	AD321196	MRP1 based cancer
c 179	14.4	1.6	17	1	ABK02234	Human NOGO DNazyme	252	12.8	1.5	16	1	AD321195	MRP1 based cancer

